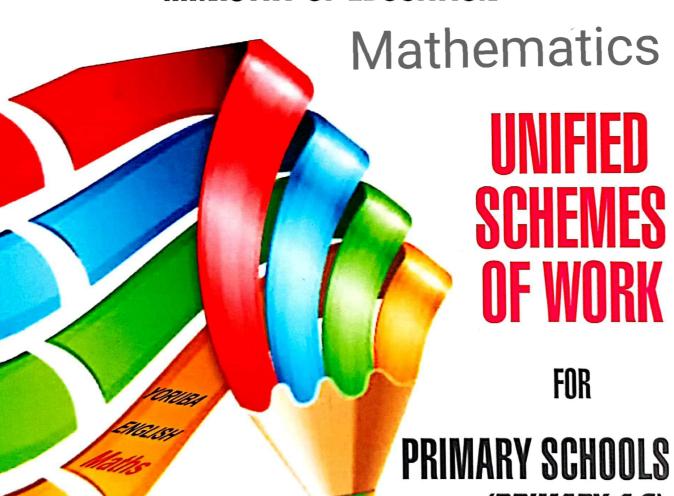


LAGOS STATE GOVERNMENT MINISTRY OF EDUCATION



CLASSBASIC.COM

PRINTED 2021

Term 1 Primary 4



LAGOS STATE MINISTRY OF EDUCATION UNIFIED SCHEMES OF WORK FOR PRIMARY SCHOOLS

(MATHEMATICS FOR PRIMARY SCHOOL) PRIMARY FOUR FIRST TERM

WEEKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CO	RE LEARNING RESOURCE
The state of the s	REVISION/RESUMP TION TEST WHOLE NUMBERS counting and reading numbers from 1000 up to 9,999 the place value of numbers up to 9,999	Pupils should be able to: count in hundreds and thousands. generate numbers using abacus apply counting of numbers in real life problems. categorize the value of a digit in numbers up to 9,999 solve quantitative reasoning	Pupils: as a group generate numbers in Tens and Hundreds using abacus in pairs build understanding with LEGO bricks using place value concept. QUANTITATIVE REASONING	Critical thinking and Problem solving Communication and Collaboration Leadership and Personal developme	AUDIO VISUAL RESOURCES Abacus to form and in numbers. LEGO bricks Number charts for sidentification Number cards. WEB RESOURCES
	Importance -Whole number gives pupils basis to solve simple addition, subtraction, multiplication and divisionIt can also be useful in banks, buying and selling, population	moz o ar la contra di cont	7230	p lama bres	Site Link https://www.math-only- math.com/place-value- chart.html Video Link www.youtube.com/walch 1gpAEQOQFkw
2	taking. WHOLE NUMBERS	Pupils should be able to:	Pupils as a class extract	Critical thinking and	ALIDIO VISUAL
	Contd) Counting from Thousand to One Million Writing numbers up to One Million The place value of numbers up to One Million	count numbers in Thousands and Millions write numbers in words up to one million identify place value of numbers up to one million	numbers in millions from a number puzzle chart around the class. The teacher gives some list of numbers in thousand and million for the pupils to extract them out for identification and writing of large numbers. Sing number songs on large numbers.	problem solving Communication and collaboration Leadership and personal development Creativity and imagination	AUDIO VISUAL RESOURCES abacus number puzzle number charts WEB RESOURCES Site Link https://www.math-only- math.com/place-value- chart.html
	Importance It is used in adding, subtracting, multiplying and dividing our payments and expensesbuying and sellingBanking and Finance.	luigmosemiya o	QUANTITATIVE REASONING 65900 76900 87900	under ban abate lighter baseren.	Video Link www.youtube.com/watch
	WHOLE NUMBERS- SKIP COUNTING Count in groups of 5's. Count in groups of 7's, 60's Count in groups of 100s and 1000s up to 10,000 Quantitative reasoning Importance It lays a foundation for multiple division. It easily helps pupils solve multiplication problems.	Pupils should be able to:	Pupils: in small groups demonstrate skip counting using skipping rope and music. in pairs,identify weeks of the months in a year calendar. in pairs, participate in the activities below: 5 10 15 20 25 30 etc. 7 14 21 28 35 42 60 120 180 270 360 420 etc. 10000 300 400 500 600 etc. QUANTITATIVE REASONING 25 30 35 40 45 50 31 38 45 52 59 66 100 160 220 280 340	A STANFORM	AUDIO VISUAL RESOURCES Abacus Calendar Counters Clock face Skipping Rope Number cards. Concrete models to sall story problems e.g. (a) cars, egg cartons. WEB RESOURCES Site Link www.mathsisfun.com.mix rs/skip-counting.html Video Link www.youtube.com/watch? D6IPnvX0dY
	ORDER AND COMPARE WHOLE NUMBERS Ordering of whole numbers with symbols up to 1,000,000. Use of relation	Pupils should be able to: arrange numbers with symbols from the largest to the smallest express inequalities of 4 to 7 digit numbers using the relation sign greater than, less than and equal to	Individual pupil arranges some given numbers in the order of magnitude i.e from the biggest to the smallest and vice versa with the use of number flash cards. QUANTITATIVE REASONING SAMPLE 3451 < 5235	problem solving Communication and Collaboration Leadership and	AUDIO VISUAL RESOURCES Flash cards with numbel Flash cards with sign of >, < WEB RESOURCES

EEKS	TOPICS	LEARNING OBJECTIVES	. LEARNING ACTIVITIES	EMBEDDED CORE	MATHEMATICS LEARNING RESOURCES
	signs -less than(<),	e.g. 2690 < 3678,	Participate and the second	SKILLS	Site Link
	greater than(>) and	723456 > 43456	- MANAGEMENT CONTRACTOR OF THE PARTY OF	was a standard of the standard	https://www.math-
100	equal to (=)	256389 = 256389	Miles to the Control of the Control		salamanders.com/comparing
	Quantitative	rearrange numbers in	Dur at the sales of the sales		-numbers.html
	reasoning	quantitative reason.	The Property of the Park		-numbers.num
	reasoning	Manager Alexander Landers Land	The state of the s		Video Link
Fig.	Importance		and state southerstate the interpretation of		www.youtube.com/watch?v=
(Astronomy)	It helps when comparing		the state of the s		www.youtube.com/watch:v
- P	quantities in real life.		SA THE SHAPE		s_y9AHZDLZA
	100		or the second second		9 per le 1 (8) (8) 5 7
	ROMAN NUMERALS	Pupils should be able to:	Pupils in small groups create a	Communication and	AUDIO VISUAL
	ROMAN NUMERALO	count and write roman numerals	hoord game displaying Dames		RESOURCES
	Counting Roman		board game displaying Roman	collaboration	Roman numerical charts
	numerals up to	from 1 to 1000 i.e i to M	numerals i to XX on a cardboard or	Leadership and	Wall of clock in Roman
- 1	1000 i.e i to M	read and show clock faces with	plywood.	personal development	Wall of clock in Roman
	Reading clock	roman numerals	Make a message decoder to	Creativity and	numerals.
WHISH.	faces with Roman	write Arabic numbers in Roman	develop a language where an	imagination	Roman Numerals flash
22.00	numerals	numerals and vice versa.	alphabet stands for the	,	cards.
1	Re-write Arabic		corresponding Roman numeral e.g.		WEB RESOURCES
	Re-write Arabic	solve simple addition and	A=: B=:: C=::: D=:: E=V	DN Pupils Chauld he rible	Site Link
	numbers in Roman	subtraction in Roman numerals	A=i, B=ii, C=iii, D=iv, E=V		https://www.math.olympiads
	numerals and vice	e.g.	Sing songs on Roman numerals.		nttps://www.maur.orympides
-	versa	i. LXV + Xi = LXXVi	April 1 Sec.		ccess.com/class-4-roman-
and the same	Ouantitative	ii. CCX - CiX= Xi	QUANTITATIVE REASONING		numerals
RESOLD.	~~~	II. 30/1 31/2 / /	SAMPLE		Video Link
	reasoning	100 E C C C	Match the numbers appropriately.		www.youtube.com/watch?v
11 10	Importance	OF 18	water the numbers appropriately.		9XxOgPgifrl
art no	-Used in the faces of	10 mg	the dealers and the		
	clocks.	The street of	YC 30		espensor
	-Numbering the	Welet 7 or	XC 20		m - 15 - 15 - 25 1
wy- 1-	pages of a book.				THE REAL PROPERTY.
	pages of a book.	touther fulfill	xx ← 90		De la Company
	And the second second	900-0 To 1	XX 90		The same of the sa
2.00	Part of the same o		· For Many du		AUDIO VISUAL
Septem !	BASIC	Pupils should be able to:	Pupils: A Paris A Pari	Critical thinking and	RESOURCES
20	OPERATIONS	add whole numbers in Th H T U	in pairs roll two dice for addition	problem solving	Dice
		with and without remainder	and subtraction	Communication and	
	Addition of whole	Williand Willout Ternamed	in small groups generate numbers	collaboration	Abacus
	numbers	subtract whole numbers in Th H	in thousands using abacus.	Leadership and	Walk on number line.
-	Subtraction of	T U with and without remainder	In thousands using abdood.	personal development	Addition Facts cards.
J. Strate	whole numbers	solve real life problems involving	in small groups tell addition story	porconal de l'al-p	Subtraction Facts cards
	Quantitative	addition and subtraction.	and subtraction story.		Subtraction Fuels =====
	1 1 1	addition and subtraction			Concrete models to solve
	reasoning.		QUANTITATIVE REASONING		Concrete models to solve
	Importance	Th H T U	SAMPLE		story problems e.g. pupil
	-Helps Bank Tellers,	5 2 4 6	SAMPLE		dice, abacus etc.
	Accountants,	+ 3 7 0 2	5726		Numbers cards.
		8 9 4 8	2451 5/26		WEB RESOURCES
4.7.4	Cashiers and Food	0 0 1 0	2356		Video Link
8	servers.	ar it antitude	1271		www.youtube.com/watch?v
made	-It also helps in	solve quantitative aptitude	3370		www.youtube.com/watch:v
2124	Carpentry work in the	A CONTRACTOR OF THE PARTY OF TH	3722		VSNst1o_rg
	measurement of	Pris 1/1 A			
10	boards or planks.	TOTAL CARROLL AND THE STATE OF		MID TERM TEST/ MID	MID TERM TEST/ MID
MAIL TO	The same of the sa	MID TERM TEST/ MID TERM	MID TERM TËST/ MID TERM	TERM BREAK	TERM BREAK
	MID TERM TEST/	BREAK .	BREAK	TERM DIVENIX	AUDIO VISUAL
12201	MID TERM BREAK			Critical thinking and	
_	MULTIPLICATION	DREAK .	Pupils:	Critical thinking and	
f* =	MULTIPLICATION	Punils should be able to:	Pupils:	Problem solving	RESOURCES
	Multiplication of	Pupils should be able to:	as a group play multiplication war	Problem solving Communication and	RESOURCES Cardboard
	Multiplication of	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit	as a group play multiplication war	Problem solving Communication and Collaboration	RESOURCES Cardboard Scissors
	Multiplication of whole numbers	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using	as a group play multiplication war with a deck of cards. Just flip two	Problem solving Communication and Collaboration	RESOURCES Cardboard Scissors Beads
	Multiplication of whole numbers Quantitative	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the bighost products keeps the card.	Problem solving Communication and Collaboration Leadership and	RESOURCES Cardboard Scissors Beads Flip cards
	Multiplication of whole numbers	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning	Problem solving Communication and Collaboration Leadership and Personal	RESOURCES Cardboard Scissors Beads Flip cards
	Multiplication of whole numbers Quantitative	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g.	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning	Problem solving Communication and Collaboration Leadership and Personal development	RESOURCES Cardboard Scissors Beads Flip cards Number charts
	Multiplication of whole numbers Quantitative	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards.
	Multiplication of whole numbers Quantitative	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g.	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication of the design of a flower than the capter of a flower with a capter of a capter of a flower with a capter of a capter of a capter of a capter of a c	Problem solving Communication and Collaboration Leadership and Personal development	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on
	Multiplication of whole numbers Quantitative	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication of the design of a flower than the capter of a flower with a capter of a capter of a flower with a capter of a capter of a capter of a capter of a c	Problem solving Communication and Collaboration Leadership and Personal development Creativity and	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards.
	Multiplication of whole numbers Quantitative	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication.
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on
	Multiplication of whole numbers Quantitative	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication.
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only-
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only-
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of whole-numbers.html
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2 X 60 2	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of- whole-numbers.html Video Link
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2 X 60 2 20 1200 40	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of- whole-numbers.html Video Link www.youtube.com/watch?v
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2 X 60 2	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of- whole-numbers.html Video Link www.youtube.com/watch?v
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2 X 60 2 20 1200 40	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of- whole-numbers.html Video Link
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of- whole-numbers.html Video Link www.youtube.com/watch?
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2 X 60 2 20 1200 40 4 240 8 1 2 4 0	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of whole-numbers.html Video Link www.youtube.com/watch?
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2 X 60 2 20 1200 40 4 240 8 1 2 4 0 + 2 4 8	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of- whole-numbers.html Video Link www.youtube.com/watch?
	Multiplication of whole numbers Quantitative Reasoning	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of- whole-numbers.html Video Link www.youtube.com/watch?v
	Multiplication of whole numbers Quantitative Reasoning Importance -Banking	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of whole-numbers.html Video Link www.youtube.com/watch?
	Multiplication of whole numbers Quantitative Reasoning Importance -Banking -Finance	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2 X 60 2 20 1200 40 4 240 8 1 2 4 0 + 2 4 8 14 8 8 solve real life problems on	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of- whole-numbers.html Video Link www.youtube.com/watch?
	Multiplication of whole numbers Quantitative Reasoning Importance -Banking -Finance -Foreign Exchange	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of- whole-numbers.html Video Link www.youtube.com/watch?
	Multiplication of whole numbers Quantitative Reasoning Importance -Banking	Pupils should be able to: revise basic multiplication facts multiply whole numbers by 2-digit numbers not exceeding 50 using the grid method and vertical method. e.g. Method 1 6 2 X 2 4 2 4 8 + 12 4 14 8 8 Grid Method 2 X 60 2 20 1200 40 4 240 8 1 2 4 0 + 2 4 8 14 8 8 solve real life problems on	as a group play multiplication war with a deck of cards. Just flip two cards and multiply. Whoever has the highest products keeps the card. After about 5 rounds, the winning group is applauded. as individuals design a multiplication facts drawing the center of a flower and write number 1-9 in the center. Next, draw 9 petals around the center, label them 4-12. Lastly, draw another 9 petals and write the product of the center number and the petal adjacent to the new petal. in small groups tell multiplication story.	Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	RESOURCES Cardboard Scissors Beads Flip cards Number charts Number cards. Concrete models on additive multiplication. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-of whole-numbers.html Video Link www.youtube.com/watch?

WEEK	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED COR SKILLS	-LAKNING RESCH
9	DIVISION Division of whole numbers	Pupils should be able to: divide 2- and 3- digit numbers by numbers up to 9 with or without	Pupils: in a group play division war with a deck of cards. Just flip two cards and divide. The group with the	Critical thinking and problem solving Communication and collaboration	RESOURCES Deck of card
	Quantitative Reasoning	remainder. divide numbers with multiples of	highest products keeps the card. in small groups roll two dice then	Leadership and personal	Puzzle
	Barrier of the second	10 up to 50 solve sharing problems in real life situations.	divide the bigger number by the smaller number.	development Creativity and	Number charts
	Importance It is useful in Arts Projects, sharing of	solve quantitative aptitude involving division.	in small groups tell division story QUANTITATIVE REASONING	imagination	WEB RESOURCES Site Link https://www.math-only math.com/division-di- numbers.html
	items and Choreography	me have set in the forest the	SAMPLE 150 ★ 50	a control or fine to be the first	numbers.html
	p Carrier (syn) Se sent a 14 - or yn y Se Gant a 15 - or fa	namengamen) namengamen	Security of a security of the		Video Link www.youtube.com/web bVi7 6tqiQo
10	LOWEST COMMON	Pupils should be able to: write multiple of number up to 9	Pupils: in small groups, locate common	Critical thinking and	AUDIO VISUAL
	Lowest Common Multiples (L.C.M) of numbers	find L.C.M using multiple method. solve real life problems using L.C.M	multiples in the given number flash cards. e.g find the L.C.M of 4 and 6	problem solving Communication and collaboration	RESOURCES Blank bingo boards List of bingo number
	Quantitative reasoning.	solve quantitative aptitude involving L.C.M.	multiple of 4= 4, 8, 12, 16, 20, 24 multiples of 6= 6, 12, 18, 24, 30 common multiple:12, 24	Leadership and - personal development	Cards with pairs of numbers written on the
	Importance Helps in solving problems related to		L.C.M ≈12 Pupils as a class play bingo game	Creativity and imagination	Number puzzle WEB RESOURCES
	track races , traffic lights etc		where pupils find the LCM of two or more numbers to find which square to mark.	at a j y	Site Link https://www.splashleam math-vocabulary/number
	A PER DELLOA A BORUONIA DEL SOLO DE	e guiter in teat C. omition staff ind realism is note, in uponju	QUANTITATIVE REASONING SAMPLE	lade on lockets about 1 lavel of the lockets of the	sense/lowest-commor- multiple
	Abacan na Jaky Abacan na Jaky Abacan Parabaha	nounded the control of the control o	6 8	THE RESIDENCE	Video Link www.youtube.com/wats
	Stribings on Fed		24	THAN THE COUNTY	KgZ-GbtCLu0
11	HIGHEST COMMON	ASONING	H JULIA	u ř ± č	- 11 ai .
11	HIGHEST COMMON FACTOR Highest Common	Pupils should be able to: write factors of numbers from 1 – 99	- 2-4 pupils play bingo game where pupils find the HCF of two or more numbers to find which square to mark.	Critical thinking and problem solving Communication and	AUDIO VISUAL RESOURCES Blank bingo boards
	Factors (H.C.F) of numbers.	identify the common factors of 2 and 3 work out the common	The first player with fair HCF listed in any row, column or diagonal wins. 4-5 pupils in a class play a jump and	collaboration Leadership and personal	List of bingo numbers Pencils Cards with pairs of
	Quantitative	solve quantitative aptitude related to H.C.F	spin game. They stand at arms' length to each other. Teacher calls out some number pairs and the pupils	development Creativity and	numbers written on I Number puzzle
	reasoning	and the second of the second o	will need to determine whether the HCF is even or odd. When it's even	imagination	
	Importance Helps in solving problems related to		they jump up but when odd they spin in a circle	r' griv i calibri r- 5 m grantium ro mori (cap ani	WEB RESOURCES
	track races, traffic lights etc	ia in distribution of the second of the seco	QUANTITATIVE REASONING SAMPLE	K no telu	Site Link
K) Por (in.	ij is artis i Figure grant ste	rudnerg i trebe distribution	4	24 8	t-common-factor.html Video Link
77.	arast _{ji s} a ayaganya " aya sa sa Tana aya sa sa	garing Amerika Timorika	12 16	8. 3.12	Video Link www.youtube.com/with KgZ-GbtCLu0
12	Revision	Revision	Revision	Gain Menas 2	Devision
			(B. 191	THE THE PARTY OF T	Revision
13	Examination	Examination	Examination	Examination	Examination



LAGOS STATE MINISTRY OF EDUCATION UNIFIED SCHEMES OF WORK FOR PRIMARY SCHOOLS PRE -VOCATIONAL STUDIES (MATHEMATICS FOR PRIMARY SCHOOL) PRIMARY FOUR SECOND TERM

VEEKS		LEARNING OBJECTIV		EMBEDDED CORE	LEARNING RESOURCE
States	REVISION OF 1ST TERM'S WORK. Resumption test Fractions Proper fraction Improper Mixed fraction Change of improper fraction to mixed fraction and vice versa. Quantitative reasoning Importance Helps pupils in sharing items and the proportion of items cut or derived from a whole	Pupils should be able to: identify some difficult topics from their 1st term's work demonstrate and explain the definition of fraction identify types of fractions differentiate between types of fractions represent fractions on a number line. solve quantitative reasoning on fraction	Pupils as a group cut a quarter of a circle from a cardboard to get one quarter as a fraction. A pupil divides an orange into 8 parts and give four to their friends to form half. Tell a story on mixed fractions, that is, how it can be obtained. QUANTITATIVE REASONING 1 1 1	Critical thinking and problem solving Communication and collaboration Leadership and personal development Creativity and imagination Citizenship	AUDIO VISUAL RESOURCES Fraction diagram Number lines Orange Card board WEB RESOURCES Site Link https://www.math-only- math.com/ fractions.htm Video Links www.youtube.com/watch/ =ISNO_C9FaD8 www.youtube.com/watch/ =N3_8MmailE
	Fractions Equivalent fractions Addition and subtraction of like and unlike fractions. Reducing to lowest term Quantitative reasoning Importance It helps pupils know how to divide whatever they	Pupils should be able to: obtain equivalent fractions of a given fraction. calculate addition and subtraction of like and unlike terms fractions. apply fractions in sharing commodities in home, market, school etc solve quantitative reasoning on equivalent fractions.	Pupils as individuals design number line showing equivalent fractions. Pupils in small groups design a pattern block card to find equivalent fractions. QUANTITATIVE REASONING 24 32 34	Critical thinking and problem solving Communication and collaboration Leadership and personal development Creativity and imagination	AUDIO VISUAL RESOURCES Paper cuttings of different shapes Squares Cardboards WEB RESOURCES Site Link https://www.maith-only- math.com/equivalent_frac
10	are given among themselves into equal sizes.		nden in a so all group de to a la l	residential reside	Video Links www.youtube.com/watch =N1X0vf5PUx4 www.youtube.com/watch =AQZE-xEeleg
	Decimal fractions Addition and subtraction of decimals. Quantitative reasoning Importance To calculate degree accuracy on weight, money and distances events. To record winning times at a track meet.	Pupils should be able to: identify decimal fractions up to tenths, hundredth and thousandths change from fractions to decimals calculate addition and subtraction of decimals solve quantitative reasoning involving decimal problems	Pupils in a small groups use cardboard to design 0.25 which is one quarter of a circle. QUANTITATIVE REASONING 14.81 5.23 9.58 94.72 52.68 42.04	Critical thinking and problem solving Communication and collaboration Leadership and personal development Creativity and imagination	AUDIO VISUAL RESOURCES Card board Marker Scissors Record of time in spore events. WEB RESOURCES Site Link https://educationwithfun.or/course/view.php?id=19 section=27 Video Link www.youtube.com/watch =guBVW5PiHLs
	Multiplication of decimals Division of decimals. Changing common fractions with 10, 100, 1000 as denominator to decimal. Quantitative reasoning Importance -To compare the rates of speed over distances.	Pupils should be able to: calculate decimals by multiplying with 1-digit number calculate decimals by dividing with 1-digit number. discover decimals by multiplying with 10, 100 and 1000. divide decimals with 10, 100, 1000 use numbers greater than 10 to multiply and divide decimals.	Pupils in a small group use cardboard to design twice the size of 0.25 which is half of a circle. Pupils in groups use different colours and sizes of cardboards to prepare flash cards on multiplication and division of numbers by multiples of 10, 100 and 1 000. Highlight boldly on shifting of the decimal point. QUANTITATIVE REASONING 15 Incomplete	Critical thinking and problem solving Communication and collaboration Leadership and personal development Creativity and imagination	AUDIO VISUAL RESOURCES Card board Marker Scissors Multiplication chart WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-o decimal-numbers.html Video Link www.youtube.com/watch? =rrT0of_eO4

WEEKS	TOPICS	LEARNING OBJECTIVE	S LEARNING ACTIVITIES	EMBEDDED CORE	LEARNING RESA	
tina i		(1.00 m)	gerja of der eine de de personal felologies Design frei de design freienderste			
5	Square Square Root of whole numbers Quantitative reasoning Importance It is used in Carpentry, Architects, Civil Engineering etc.	Pupils should be able to: calculate the square of numbers from 1-20 identify the perfect squares in a set of numbers e.g. 1,2,3,4,5,6,7,8,9,10,11,12, 13,14,15,16,17,18,19,20. 1, 4, 9, 16 are the perfect squares. find the square root of perfect squares up to 400 solving word problems involving the calculation of square of numbers and square root of numbers. solve quantitative reasoning	Pupils in a group design a clock using flash cards where √4 represent 2, √9 represent 3. Pupils select perfect square numbers from a basket containing number cards of 1-100 and tell the class the square root. Sing songs on squares of numbers and square root of numbers. Pupils calculate the square of number e.g. Find the square of 18 Method 1 18 18 19 18 11 11 11 11 11 1	Critical thinking and problem solving Communication and collaboration Leadership and personal development Creativity and imagination	AUDIO VISUAL RESOURCES Flash cards Scissors WEB RESOURCES Site Link Www.mathsishin oze Te-root.html Video Link www.youtube corny =BJzZD03Sqyz	
			4 16	The state of the s	=	
6	ESTIMATION Round up of numbers Round up on addition and subtraction of numbers Quantitative reasoning	Pupils should be able to: identify actual numbers. solve round-up numbers. calculate addition and subtraction of round-up of numbers. interpret and solve real life	Pupils in a group fill an empty jar with pebbles, count the number of pebbles that will fill the jar. Then estimate the number. Pupils use a ruler and cardboard to prepare scale chart for estimation.	Critical thinking and problem solving Communication and collaboration Leadership and personal development	AUDIO VISUAL RESOURCES Empty jar Pebbles Hands	
	Importance It is used in budget writing.	problems on estimation. solve quantitative reasoning.	Round up to 0 Round up to 1 Pupils in a small group check the weights of 5	Creativity and imagination	Supermarket receives RESOURCES Site Link https://www.math-on	
	To estimate the total cost of items at a departmental store.	militari (m	different books and record. Each of the recordings is then estimated. QUANTITATIVE REASONING 130 300 1 51 78 185 133	A SECULATION AND ADDRESS OF THE PARTY OF THE	math.com/estimating sums-and-difference Video Link www.youtube.com/w	
7	Review of first half terms and periodic test	MID-TERM BREAK	MID-TERM BREAK	MID-TERM BREAK	=LE-X8J4RwKM MID-TERM BREAK	
8	MONEY Conversion of money Addition and Subtraction Profit and Loss Word problems Quantitative reasoning	Pupils should be able to: convert naira to kobo and vice versa. calculate the sum and difference of money. differentiate between profit and loss. solve real life problems on profit and loss. solve quantitative reasoning	Pupils as a class dramatize classroom sales by using their books, writing materials, school bags, lunch box etc as commodities. They decide upon how much each item will be sold and create fun price tags to be placed on the items. Once the items are labeled, tagged and in place, set up a play cash register and then start shopping. One of them is given a small purse of dummy money and allow them to take turns in shopping for an item. One of the pupils	4 114 114	AUDIO VISUAL RESOURCES Books Writing male School bass Lunch box WEB RESOURCES Site Links https://www.maib.abh	
	Importance It is used in obtaining the basic necessities of life including food, clothing and shelter. It is also used for foreign exchange.	on money.	to be at the cash register. QUANTITATIVE REASONING N790 N890 N275		math.com/additor-of- money.html https://www.math-on- math.com/subtractor- money.html	
	exchange.		N270 N520 N615		Video Link	
9	MONEY Multiplication of money. Division of money. Word Problem	Pupils should be able to: use whole number to multiply money. divide money by whole number.	Pupils as individual multiply the money in their pocket by 5 and the first to get it shout his or her result. Pupils study a supermarket receipt on purchase of commodities, identify multiplication activity	Ochient Mintier and	EPdkGwXjf7c AUDIO VISUAL RESOURCES Money Multiplication chart	

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NEEKS				PALCET	MATHEMATICS	
	Quantitative	Solve real life problems on	LEARNING ACTIVITIES	EMBEDDED CORE SKILLS	LEARNING RESOURCES	
1000	reasoning mu mo Importance be it is used in obtaining the sol	multiplication and division of money. (Online shopping to be included) solve quantitative reasoning problems.	and practice it. QUANTITATIVE REASONING 8 N768.00 N96.00	Leadership and personal development Creativity and imagination	Departmental store receipt. WEB RESOURCES Site Link https://www.math-only- math.com/multiplication-o	
	LA SUTFICE	Pupils should be able to:		A REPORT	Video Link www.youtube.com/watch? =3lgEo4cmRrE	
	OPEN SENTENCE Addition and Subtraction Multiplication Division Quantitative reasoning Importance It is used in finding the miles per gallon achieved by a car.	illustrate and explain the term open sentence. predict the missing numbers in an open sentence. tell stories on open sentence, write and solve the equations. solve quantitative reasoning involving open sentence	Pupils: -respond to the following questions with TRUE or FALSE 8 + 4 = 5 + 7 6X8 = 25+23 5-4 = 7+7 -predict missing numbers in these open sentences: e.g. (a)	Critical thinking and Problem solving Communication and Collaboration Leadership and Personal development Creativity and Imagination	AUDIO VISUAL RESOURCES Flash cards WEB RESOURCES Site Link https://www.mathsisfun.co m/algebra/open- sentences.html Video Link www.youtube.com/watch? =PsUqqUA6Atc	
11	REVISION	REVISION	REVISION	REVISION	REVISION	
12	EXAMINATION	EXAMINATION	EXAMINATION	EXAMINATION	EXAMINATION	
	EXAMINATION	EXAMINATION	EXAMINATION	EXAMINATION	EXAMINATION	

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Term 3 Primary 4

LAGOS STATE MINISTRY OF EDUCATION UNIFIED SCHEMES OF WORK FOR PRIMARY SCHOOLS

(MATHEMATICS FOR PRIMARY SCHOOL) PRIMARY FOUR THIRD TERM

WEEKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIV	/IIIES	EMBEDDED COR	
	Revision of 2 nd term's work. Resumption Test	Revision of 2 nd term's work Resumption Test	evision of 2 nd term's work. esumption Test		Revision of 2 nd term's work. Resumption Test	Revision of 2rd
	LENGTH Estimating length Comparing measurement Addition and subtraction of length Quantitative Aptitude	Pupils should be able to: estimate distances in kilometers and meters. e.g. estimate the width or height of: a wall, a table, a floor, plane shapes to the nearest meters or centimeters	upils as individual use non standard ngers to measure the length of their persentheir measurements. upils in small groups use ruler or tap leasure different dimensions of object assroom as follows.	lables and then e measure to	Critical thinking and problem solving Communication and collaboration Leadership and	Resumption To AUDIO VISUA RESOURCES Tape rule Measuring Odometer Fingers
		compare measurement in	Measure	THE THE PERSON OF THE PERSON O	personal development	WEB RESOUR
2 1 5 3 4 4 4	Importance - It is used by fashion designers to measure clothescarpentry worksIt is used in simplifying measurements.	meters and kilometers e.g. Dayo treks to the store which is a quarter of a kilometer from his house. If it takes him 15 minutes to get to the store, how many meters does he walk? NB: 1 kilometer = 1000m 1/4km =	Objects m cm Height of door. Width of door. Length of a mew a more appearance.	mm (2795) (1990) (1990)	Creativity and imagination	https://mww.ed. .com/lesson- plan/whats-the Video Link www.youtube.com/ tch?v=qLnuC?
	TO STATE OF THE ST	1000m	Length of a marker poord. Length of a modex inger.			<u>t=828s</u>
	Solve quantitative reasoning on length.				1120-35	
	AAS CHEE	Kritish / S	UANTITATIVE REASONING			
	MACAMICA.	m Km = MAXDAGG	1000			
	Augu 通道をin Maria Fri Milliager	THE STATE OF THE S	35000 35	1.1 4.1		
encindore proprio conditivi propri	in the de market in a 2 the Si - is the		54.7			
			1200 11.2	1		
-	WEIGHT	Pupils should be able to:	pils:		2011	
	Addition and subtraction of weight Multiplication of weight in kilograms by whole numbers Division of weight in kilograms by whole	solve addition problems on weights of objects e.g. 236g + 362g = 598g calculate difference in weights of objects solve problems on multiplication of weight in kg and grams by	as a class discuss the meaning of w in pairs compare the weights of their check their individual weight using t and record. find the sums and differences of thei	Critical thinking and problem solving Communication and collaboration Leadership and personal	AUDIO VISUAL RESOURCES Weighing scale Pictures of different measu scales Stone	
	number Quantitative aptitude	whole numbers. solve problems on division of	UANTITATIVE REASONING g		development Creativity and	Pupil's schoo
	Importance It helps in the use of	weight in kg and grams by whole numbers.			imagination Citizenship	WEB RESOUR Site Link
	weighing heavy objects like haulage. -It helps in the sales of	solve real life problems on weight solve quantitative reasoning on	20 20000			https://study.co demy/lesson/g/ kilograms-lessu
	frozen food items such as meat, fish, chicken, turkey, crabs, etc.	weight	5 5000			Video Link
4	SQUARE AND RECTANGLE	Pupils should be able to:	pis:			ICH ?V-44
2	Properties of a square and a	measure and calculate the perimeter of a square,	discuss the properties of a square and in pairs use tape measure to record the dide of their desks, themadd them togs	a rectangle. e length of each	Critical thinking and problem solving	AUDIO VISUAL RESOURCES Cardboard Square chart

MATHEMATICS

EEKS	TOPICS 65	LEARNING OBJECTIVES	A SHIPPAS LEARNING ACTIVITIES 80 04	EMBEDDED COR	LEARNING RESOURCES	
	Perimeter of square Perimeter of rectangle Area of square and	measure and compute the perimeter of a rectangle. solve the area of a square and rectangle. solve real life problems. solve quantitative reasoning related to areas and perimeters of squares and rectangles.	perimeter of their desks. They also multiply two of the lengths to calculate the area. use geoboard to make a square and rectangle. determine the amount of wall papers to decorate a wall of the classroom to understand the concept of an area of plane shape. Then paste the wall papers on the wall. QUANTITATIVE REASONING 12 13 30	and collaboration Leadership and personal development Creativity and imagination	Classroom Tape rule Desktops WEB RESOURCES Site Link https://my.homecamp us.com.sg/Learn/Pria mry-Grade- 4/Measurement/Area- and-Perimeter-of- Rectangles-and- Squares Video Link https://youtu.be/ZMEa	
5	Forecaster. -To plan events and occasions e.g. festive periods, pregnancy period, arrival and closing at school etc. calendar. use the notation "a.m. (ante meridian- before noon)" and "p.m. (post meridian- after noon)" for time of the day conversion of hour to minutes, seconds and vice-versa	discuss the purpose of time. identify the seconds, minutes and hour hands on a clock. tell the time on the clock (digital and analogue). read and interpret and calculate time on daily, weekly and monthly activities using a calendar and recite 60 seconds make 1 minute rhymes of a year calendar. use the notation "a.m. (ante meridian- before noon)" and "p.m. (post meridian- after noon)" for time of the day conversion of hour to minutes, seconds and vice-versa tell stories on time in connection to real life problems solve exercises on quantitative	Pupils: discuss the purpose of time and timing in life. in a small groups use flash cards to design seasons (raining, sunny and harmattan) of the year. as a class play a calendar game by picking at random from a box with questions like, today is? tomorrow willbe? How many days are in September? Count days ahead to plan event or back-date to trace historical events etc. NB: Pupils are to be exposed to real life experiences on time so that they can be time conscious for every event or occasion. QUANTITATIVE REASONING 7.00 a.m 20 hrs	Critical thinking and problem solving Communication and collaboration Leadership and personal development Creativity and imagination	XHifLac AUDIO VISUAL RESOURCES Wall clock (analogue and digital) Calendar Chart on seasons of the year. WEB RESOURCES Site Link https://youclevermonl ey.com/2018/03/teacl ing-time.html Video Link www.youtube.com/watch?v=YJPIXvfFZQc	
		Pupils: in groups fill different sizes of containers with water from a water vessel and then record their observation. in groups prepare a chart on metric unit conversion from smaller unit to bigger unit and vice versa.	Critical thinking and problem solving Communication and collaboration Leadership and personal development Creativity and imagination Citizenship	AUDIO VISUAL RESOURCES Bottle of coke Bottle water Water vessel Number charts for easy identification WEB RESOURCES Site Link https://theschoolrun.com/what-is-capacity Video Link www.youtube.com/watch?v=CRdOth5TMu		
7	Review of first half terms and periodic test	MID-TERM BREAK	MID-TERM BREAK	MID-TERM BREAK	MID-TERM BREAK	

MATHEMATICS **EMBEDDED CORE** LEARNING ACTIVITIES LEARNING LEARNING OBJECTIVES SKILLS RESOURCE WEEKS **TOPICS** Pupils in groups measure and compare the quantity Critical thinking AUDIO VISUAL of a smaller container to be derive from a bigger and problem RESOURCES Pupils should be able to: CAPACITY calculate the multiplication in solving Bottle of coke Multiplication in container litres by whole numbers Leadership and Bottle water liters solve in litres using division by personal Number charls h Division in liters Unit Hunt Game: Three or four pupils hold 5 index cards each. development whole numbers easy identification Quantitative Each player (pupil) is assigned a unit of measure (e.g. appreciate litres as the unit of Creativity and aptitude cm, litre, kg) to be written on the index cards. Variety of WEB RESOURCE imagination capacity. objects are presented to the pupils to tape the index Citizenship Solve real life problems on **Importance** Site Link cards to the appropriate objects. The winner is the first https://www.ep/ay: It is used at the fuel capacity. pupil to tape the cards to the appropriate items. m/worksheet into station. It helps to know use quantitative reasoning to hs/keystage1/jez/ the actual capacity of a solve problems in litres. pic/877/978/m/* QUANTITATIVE REASONING container. tion-and-division. problems-related capacity Video Link www.youtube.com tch?v=cpTXdol; 9L Critical thinking AUDIO VISUAL Pupils: Pupils should be able to **PLANE SHAPES** and problem RESOURCES in a group arrange their writing materials vertically and describe the symmetry of a Symmetry on plane solving Metre rule horizontally. shapes shape. in small groups arrange themselves in such a manner Communication Screw driver Horizontal and identify the symmetrical line on and collaboration Pencil plane shapes e.g square, to form cardinal points. vertical lines Leadership and draw Nigerian flag on plane paper, colour it and draw Biro Cardinal points rectangle, triangle etc. in the lines of symmetry on it. personal WEB RESOURCE regulation to reflection. development Site Link locate line(s) of symmetry of write the capital letters of the alphabets, select the Creativity and https://www.splastie <u>Importance</u> letters that you can draw lines of symmetry on. Draw plane figures at school and It is used in designing or write out the reflections of the letters on paper. imagination m.com/mathhomes vocabulary/geometr of clothes, buildings etc Citizenship identify right angle, acute and horizontal obtuse angles in plane shapes. Video Link www.youtube.com tch?v=PEYIg6AY0 **QUANTITATIVE REASONING** Acute angle is less than 90° obtuse angle i.e. 90°> θ < 180° identify the cardinal points i.e North, South, East, West. N S distinguish between horizontal and vertical lines. Vertical line Horizontal line AUDIO VISUAL Pupils should be able to: 10 THREE Pupils in groups use cardboards or cartons to build Critical thinking RESOURCES DIMENSIONAL explain the meaning of three and design beautiful houses with these shapes and problem Card board SHAPES (3D) dimensional shapes. cube, cuboid, cone, pyramid and cylinder. solving Cube of sugar, Quantitative distinguish between 2 and 3 Communication maggi, die. Reasoning Wooden pyrami dimensional shapes. and collaboration list the properties of three QUANTITATIVE REASONING Leadership and Scissors dimensional shapes. personal **Importance** Copy and complete the table below WEB RESOURCES appreciate the presence and development It is useful in Art and uses of 3 dimensional shapes at Shapes No of edges No of vertices Creativity and Site Link Design, Architecture https://www.splashi Tin of milk imagination apply 3-Dimentional shapes into Cube of Citizenship m.com/mathvocabulary/geomet real life situations, sugar solve quantitative reasoning Box of match 3-dimensional

WEEKS	TOPICS	LEARNING OBJECTIVES	(CT)	His	1	LE/	ARN	ING	ACT	IVITI	ES		EMBEDDED COR SKILLS	MATHEMATICS E LEARNING RESOURCES
		N SCHOOL)	RAM										4.	Video Link www.youtube.com/wa tch?v=wal9k9bcqhs
11	EVERYDAY STATISTICS Pictogram Bar Chart Mode Simple probability	Pupil should be able to: group data or information using diagram, pictures, images and symbols. draw a bar chart identify the mode from the	repr	he cla esent a stor a stor	the y on y on	infor data theo	matic colle retica	d acco n in a ction of prob NING	char and ir	Critical thinking and problem solving Communication and collaboration Leadership and	AUDIO VISUAL RESOURCES Pencils Erasers Sharpeners Rulers			
	Importance It helps in collecting,	graph. relate the graph to real life situations.	. P	S	s v	v s	c c	s C	P P	P V	S	La Principal	personal development Creativity and	Biros. Number charts for easy identification
	organizing, tell stories on the probability and so presenting information problems.	gand probability and solve the	P	s	٧	c	c	V	P	v s	c	Park et	ímagination Citizenship	WEB RESOURCES Site Link
		solve quantitative reasoning.	Copy and complete the following Letter P appears how many times? Letter C appears how many times? Letter S appears how many times?							(mile)	https://www.splashlea m.com/math- vocabulary/geometry/ baar-graph			
		ente militali interna	Letter										And Analysis of a separate of	https://www.splashlea m.com/math- vocabulary/geometry/ picture-graph
163		The Title to											SURE?	Video Link www.youtube.com/wa tch?v=qKztszzzqsk
12	REVISION	REVISION	REVI	SION			7	GUL X	15,				REVISION	REVISION
13	EXAMINATION	EXAMINATION	EXAM	/INA	TION								EXAMINATION	EXAMINATION

Mathematics
Plan Lesson Notes
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Term 1 Primary 5



LAGOS STATE MINISTRY OF EDUCATION UNIFIED SCHEMES OF WORK FOR PRIMARY SCHOOLS

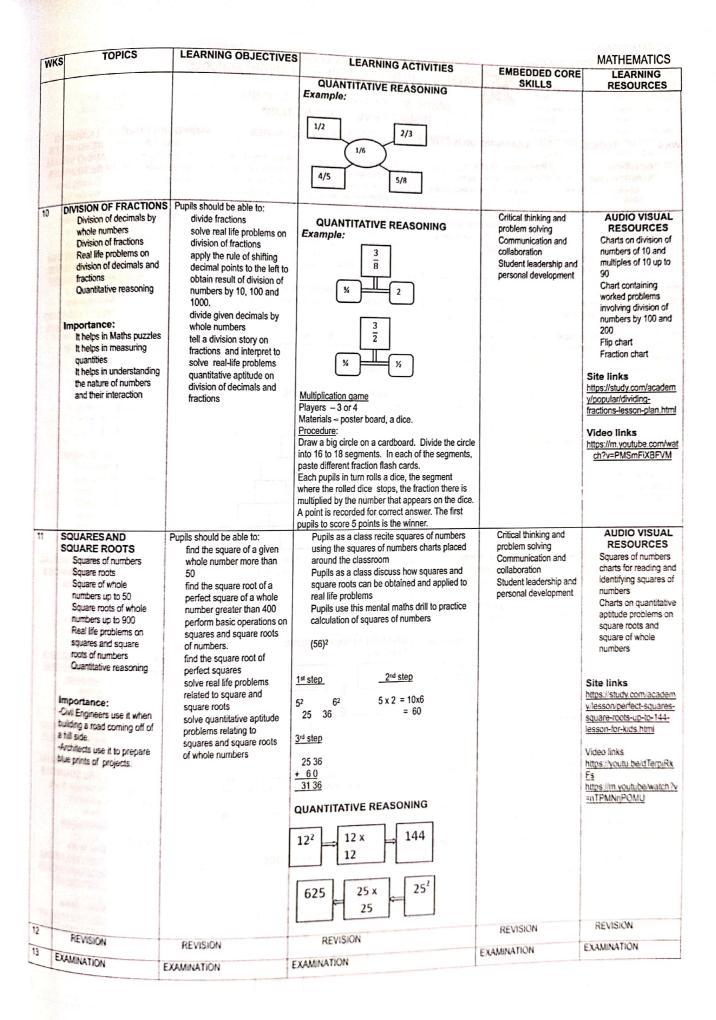
(MATHEMATICS FOR PRIMARY SCHOOL) PRIMARY FIVE FIRST TERM

WKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CORE	LEARNIN	
2 A.C.	whole numbers Place value of digits in decimal numbers Quantitative reasoning Importance: Day to day activities on counting Counting in thousands and millions help in addition of money, goods and commodities in large quantities.	Pupils should be able to: count in thousands and millions use abacus to form given numbers categorize the value of a digit in a whole number from a given set off digits in decimal numbers or whole numbers compare and order whole numbers to 100, 1000 round up nearest to the nearest 10, 000 apply counting of large numbers in real life problems. solve quantitative aptitude problems related to place value and whole numbers	Pupils as individuals identify values of each digit in a given number using abacus or place value number cards. Pupils in small groups categorize each digit in a decimal number according to its place value Pupils in pairs arrange and read large numbers using an abacus Example: Form and read 12 433 on abacus Example: Form and read 12 433 on abacus Answer: twelve thousand, four hundred and thirty-three QUANTITVE REASONING Example:Rearrange these numbers from the smallest to the biggest 169 242, 209 242, 189 242, 179 242, 199 242 Answer: 169 242, 179 242, 189 242, 199 242, 209 242 QUANTITATIVE REASONING Example:identify the place value of 9 in 7 789 125 Answer: 7 789 125 ⇒ 9 ⇒ 9 000	Critical thinking and problem solving Communication and Collaboration Leadership and Personal development	RESOURC AUDIO VIS RESOURC Abacus to form: read numbers Number chack of identification Number flash cards with demonstration of value of digits Video links http://m.youtube.co/ h?v=OURp7d nu/w Site links https://math.libreter/ Bookshelves/PreAct Bookshelves/PreAct Bookshelves/PreAct Whole Numbers IP	
2		numerals into Roman numbers Changing Roman numerals into Arabic numbers Addition and subtraction involving roman numerals Importance: Page identification in books It provides a new representation of	Pupils should be able to: convert Arabic numbers into Roman numbers change roman numerals to Arabic numbers add and subtract questions on roman numerals solve quantitative aptitude problems on roman numerals	Pupils: are divided into two groups. Few flash cards are scattered on the floor, each having Roman numerals written on it. Some numbers are given to both teams. One member from each team has to run with a number and pick the necessary roman numbers to match a required number given. The first group to finish after 3 to 5 rounds is the winner. Sing roman numeral songs. QUANTITATIVE APTITUDE XL - VIII 32	Į.	AUDIO VISU RESOURCE Roman numeras flash cards Charts Site links https://study.com/aca y/lesson/roman-nums lesson-plan.html Video links https://m.voutube.com/ch?v= y2x9jd0HiM
3	ADDITION AND SUBTRACTION OF NUMBERS Addition of whole numbers in thousands and millions Subtraction of whole numbers in thousands and millions Real life problems on addition and subtraction in thousands and millions Quantitative reasoning Importance: The knowledge of addition and subtraction	Pupils should be able to: add and subtract whole numbers involving three or more terms tell addition story and subtraction story. carry out correct addition and subtraction in everyday life activities correctly. solve quantitative aptitude problems involving addition and subtraction of whole numbers and decimal numbers	Pupils in small groups use a pair of abacus to add or subtract three or more-digit numbers Pupils as individuals apply place value in addition and subtraction of numbers. Pupils in pairs tell stories that require addition and subtraction in real life problems and solve them QUANTITATIVE REASONIN Examples: 1100 3400	Ė	AUDIO VISUI RESOURCE Abacus charts for correct aductor at subtraction of the more-digit numer Charts Physical materias e g counters, pebbles, morey /ideo links https://m youtube.com https://m youtube.com site links ttps://cnx.org.com https://cnx.org.com https://cnx.	



KS	TOPICS 100 G	LEARNING OBJECTIVES	A SHE LEARNING ACTIVITIES 19480	EMBEDDED CORE	MATHEMATICS LEARNING
-	helps in day to day		1 2.00	SKILLS	RESOURCES
	activities. For example,	t		100 0 507	CasoU7Z@5/Addition-
	buying and selling of		5600 1600		and-subtraction-of-Whole
06	food items, provisions,			pnharta -	-Numbers-Subtraction-of-
ME.	balancing or preparing				Whole-Numbers
九道	account sheet in a store		4000		_#105e00
	and the state of t				
_	etc. MULTIPLICATION AND	Pupils should be able to:	D ::		
4	DIVISION OF WHOLE	multiply and divide numbers	Pupils in a class are arranged into smaller	Role play	AUDIO VISUAL
24	NUMBERS	with three digits by three	groups of five pupils. The group leader now	Student leadership and	RESOURCES
	NUMBERS	digits	identifies the number of groups created from	Physical development	Physical materials
4	Waliestian and		the class population. This activity shows	Critical thinking and	Multiplication flash
	Multiplication and	solve real life problems on	division have taken place	problem solving	cards
1	division of three-digit	multiplication and division	Pupils in pairs arrange groups of different	5/5 WORLS - CORT 16/1	Multiplication charts
	numbers by three-digit	of whole numbers	concrete materials in same quantity. To		Sibol Sie Common
- 1	numbers	multiply numbers by zero	calculate the total quantity, they are asked to		right (F)
	Multiplication of numbers	and one	count the number of materials in a group and		Site link
AU	by zero and one	divide numbers by 10 and	multiply with the number of groups available.		https://math.libretexts.org
280	Real life problems on	multiples of 10 up to 90,	(Additive Multiplication)		Bookshelves/PreAlgebra/
de	multiplication and	100, 200 and 1000	Pupils as individual recite the multiplication		Book%3A Prealgebra (A
aria.	division	respectively	table forward and backward off-hand.	enthar's entres	rold)/01%3A The Whole
4	Division of numbers by	solve quantitative aptitude	and salar and off-fidite.		Numbers/1.03%3A Mul
	10, 20,90, 100,	problems on multiplication	* * * * * * * * * * * * * * * * * * *		plication and Division or
1176	200 and 1000, 2000	and division of whole	QUANTITATIVE REASONING		Whole Numbers
etra	Quantitative reasoning	numbers	Example:		
72	ago como foresta	numbers	Example.		Video Link
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		121 24		https://m.youtube.com/wa
	Importance:	1 7 1			ch?v=6MFluoDmubU
	The idea of multiplication				CIT: V-CIVII IGODINGO
	and division helps in	B. 1	2904 625 25		pagement in make
	faster calculations where				of a control of the c
	large digit numbers	<u> </u>			
			25		
	which are paired or are in groups are needed to be	Company to the Compan	man de perus celer to		giniga.
		relaining them is a	The state of the same of the s		32 1000 3 100
	counted.	asura dirada 👙 - DSR (a un la trans arounderet i		723957
5	PRIME NUMBERS	Pupils should be able to:	Pupils:	Communication and	AUDIO VISUAL
)	PRIME NUMBERS		in pairs categorize numbers less than 100	collaboration	RESOURCES
	The same of the same of	identify even and odd	into odd or even numbers in tabular form	Student leadership and	Charts of factors of
	Identification of odd and	numbers in a given set of	using number flash cards	personal development	numbers
	even numbers	numbers	in small groups use flannel boards and cards	Critical thinking and	Charts of multiples of
	Identification of prime	categorize prime numbers	to identify common factors and multiples of	problem solving	numbers
	numbers less than 200	less than 200 from a given	given numbers	problem coming	Flash cards
	Lowest Common	set of numbers	class do a role play on skip counting of		Flannel boards
	Multiples	solve problems involving	numbers in twos where numbers are		Charles Rom
	Highest Common Factor	LCM and HCF	distributed in ascending order round the		Site links
	Quantitative Reasoning	solve quantitative aptitude	class, pupil with number says his number	and the second	https://study.com/academ
	a state party	problems related to prime	class, pupil with number says his number		y/lesson/prime-numbers-
	Importance:	numbers and factors	aloud and step forward, followed by the next pupils who steps backward. In this manner,		lesson-plan.html
	LCM helps in multiples of		pupils who steps backward. If this market, pupils with odd numbers and even numbers		Ave a price of
	numbers		pupils with odd numbers and even numbers		video links
- 6	HCF helps in normal		would have been separated into two groups		https://youtu.be/4eNr1g-
	division knowledge		ANALTITATIVE ADTITUDE		kOie
			QUANTITATIVE APTITUDE		41
			Example:		OURTH I
		$-m^2 = L_{-1}[r_{00}]$ $\dot{M}(0,r)] = -r_{-1}$	(10) (18)		TOAS
4.	Bookis	2 Catha is			
	A Section of the sect	. um - pc	50 36		di de ya
- 63	The state of the s	- years a little Kills	50 36		
200	Property of the same of	a naze indicat	$\overline{\binom{5}{5}}$		Top 1
	AG 17 - 17	r 1 16.	5 (2)	72/12/=3	
6	56.00 pp		Pupils as a class use the fractions chart in	Critical thinking and	AUDIO VISUAL
1	FRACTIONS	Pupils should be able to:	a secuting percentages	problem solving	RESOURCES
	0.1	arrange fractions in	n ilt a gordboard into two, resulting into	Communication and	Cardboards
175	Ordering of fractions	ascending or descending	14 the same action is repeated in the same	collaboration	Fraction to decimal
	Changing fractions to	order	½, the same action is repetited in the ½, the same action is repetited in the ½, ½etc.	Student leadership and	conversion charts
000	decimals	change fractions to decimals		personal development	Fraction to
	Changing decimals to	and vice versa	QUANTITATIVE APTITUDE	1 AC 25	percentage
1	Iractions	convert fractions and	QUANTITATIVE AT 11192		conversion charts
1	Changing fractions and	decimals to percentages			Decimal to
100	decimale	decimals to percentage	Example: 3/4		percentage
300	decimals to percentage	COMP TO SHIP DIVIDIENTS			conversion charts
38	decimals to percentage Quantitative reasoning	solve real life problems.			
36	Quantitative reasoning	solve quantitative aptitude			Percentage to
28	Quantitative reasoning Importance: it helps in buying and	solve real life problems. solve quantitative aptitude problems related to decimals, fractions and	75% 0.75		

10000	TOPICS US C	LEARNING OBJECTIVES	Lipa -	pwirt	LEARN	NG A	CTIVIT	IES	Let	SKILLS	
WKS	It also helps in the banking sector It helps in easy sharing of items or concrete objects.		(,	5%	[½] ——(0.25					Site links https://study.com y/lesson/what-is- definition-and-by
le in		3	81.31	- 10 M					eige ey'		Video links https://m.youtub ch?v=zQuUNEs
79.		T and the leaves of the leaves				- 11	1- 11		-	Leadership skill	
обер	Review of the first half term's work and periodic test	Pupils should be able to: review the first half term's work participate in the periodic test.	gr pa	oups to irticipate	to be gro do revision e and inte	on on to ract with	pics trea n each o	pils	Mariana III. A desperador III. A desperador III.	Past question Exercises for textbooks are notebook.	
	RATIOS Relationship between ratio and fractions Solving real life problems on ratio Quantitative aptitude	Pupils should be able to: explain the meaning of ratio express ratios in terms of fractions solve real life problems on ratios. solve quantitative aptitude problems related to ratio	Pu the pu In ma se	ipils as by split pils; on this wa aterials ven i.e.	cuss their a class poten concre e taking the y, we say are share 3:7	erform a ete mate nree and that the d in the	role pla erials be d the oth ten con- ratio thr	y where tween tw er sever crete	vo	Communication and collaboration Citizenship Critical thinking and problem solving	AUDIO v RESOU Physical ma e.g. objects, sticks, count Site links https://study.com y/lesson/rato-les
	de special de			3:4			1:4	7			plan.html
	Importance: It helps to determine better prices of commodities in a grocery store.	E	0.75	75%	3/4	0.25		1/4			video links https://m.youtube ch?v=nUAS2PN
1	ADDITION AND SUBTRACTION OF FRACTIONS Addition of fractions and mixed numbers Subtraction of fractions and mixed numbers Addition of decimal fractions Subtraction of decimal fractions Real life problems Quantitative reasoning mportance: Calculating stock market prices. Measuring wood dimensions used for building.	Pupils should be able to: add and subtract fractions with common denominators add two proper fractions, improper fractions and mixed fractions subtract two proper fractions, improper fractions and mixed fractions and mixed fractions apply addition and subtraction of proper and improper fractions into real life problems use LCM method to add and subtract fractions solve quantitative aptitude problems related to addition and subtraction of mixed numbers	life su sh Pu me ad Q' Exam	e activiti btractio btractio aring pi pils in a easure to the reunant pilot btraction brokes.	 ½ ¼	accuraceons are ses of bise a tape of 2 am other.	ry of add required read. e measu ns of a p	ition and e.g. re to upil and	i i	Critical thinking and problem solving Communication and collaboration Student leadership and personal development	and subtracts SITE LINK Site links https://study.com y/poculariacdrog- fractions-number plan.html Video link https://m youtube- ch?v=Y69cbPbr
distribution of the last of th	MULTIPLICATION OF FRACTIONS Multiplication of decimals by whole numbers Multiplication of fractions Real life problems on multiplication of decimals and fractions Quantitative reasoning Importance: -To calculate discount of an item in sales To determine the ingredients needed to bake cake or	Pupils should be able to: multiply fractions solve real life problems on multiplication of fractions multiply given decimals by whole numbers interpret and solve the given real-life problems solve given problems in quantitative aptitude on multiplication of decimals and fractions	mu Pu fra Pu tim ba Pu mu	ultiplicat pils in p ctions u pils as a les table ckwards pils in p ultiplicat	individuals ion of nun airs carry ising fract a class rea es of 8 and s airs give ion and di or fractions	out multion flash cite the red 9 forward for the cite the red to the cite the red forward for the cite	of 0 and 1 tiplication cards of multiplication and and examples volving of	n of r charts ation s where decimal		critical thinking and problem solving Communication and collaboration Student leadership and personal development	AUDIO VARESOUR Charts on avenumbers of the multiples of the 90 Flip chart Multiplication of Multiplication of the 100 per visit of the



Term 2 Primary 5

LAGOS STATE MINISTRY OF EDUCATION UNIFIED SCHEMES OF WORK FOR PRIMARY SCHOOLS

(MATHEMATICS FOR PRIMARY SCHOOL) PRIMARY FIVE SECOND TERM

wks	TOPICS	LEARNING OBJECTIVES		EMBEDDED COR SKILLS	
	REVISION/ NUMBER LINE Revision of 1st Term's work Addition using number line Subtraction using number line Real life problems Quantitative reasoning Importance: It is used for easy addition and subtraction procedures It helps in the reading of clinical thermometer.	Pupils should be able to: revise 1st term's topics add and subtract using number lines solve quantitative aptitude problems related to addition and subtraction of integers using number lines	Pupils are guided to write numbers -7 to +7 on sticky notes and place them on the floor in the class in ascending or descending order on a number line and allow enough space in-between the numbers. 3-4 pupils select simple addition or subtraction flash cards from a basket, e.g. 1 +6, 2 -5, -3+4 etc. Each pupil in turns is to stand and walk on the number line for addition or subtraction. Pupil in the class count aloud the movement of the volunteer according to the flash card picked. Pupils in groups use letters to represent numbers on number line. E.g. which letter best represent the number 2½ on the number line? K L M N O 1 2 3 4 The answer is letter M. QUANTITATIVE APTITUDE	Critical thinking and problem solving Communication and Collaboration Leadership and Personal development	AUDIO N RESOU Coloring
	exall habiy		Complete the pyramid		
84. 0	ST 1 SM I-v	The state of the s		The state of the s	
		Soft of an experience	-8 5 -4 2 4		_
10 6	Larren May the	metral and a	-7 -1 6 -10 12 -8	er Hare	
2	ESTIMATION Rounding up numbers Estimation sums, differences and products	Pupils should be able to: round up numbers to the nearest 10, 10 and whole numbers	Selected few pupils to be given a handful of raw corns or beans . They are then asked how many are there without counting them Pupils in groups study and work on a receipt of a	Communication and collaboration Critical thinking	AUDIO VIS RESOURI flash cards charts
8	Quantitative reasoning Importance: Manipulating and storing of data in a computer system Used in building blocks like logic gates,	rounding numbers to the nearest tenth, hundredth and thousandth estimating sums, differences and products solve quantitative aptitude problems related with binary numbers	grocery store or a supermarket to practice estimation. QUANTITATIVE APTITUDE Example: 6.75 3.1	Student leadership and personal development	Erasers -Grocery store recepts. Site links https://study.com/demy/lesson-for-kids.html
	registers and arithmetic processors Estimating the total cost of items at a departmental store.		21	med km kkey remain a meny and	Video links https://m.youtub /watch?v=Ev06
3	PERCENTAGES Meaning of percentages Changing a percentage to a fraction of decimal and vice versa Express number as a percentage of another Quantitative reasoning	Pupils should be able to: explain the term "Percentage" calculate the ratio of two numbers solve questions related to real life problems on percentages express a number as a percentage of another number	Pupils work in pairs. Work on hundred boxes drawn on a piece of cardboard and then shade 10 out of the 100 boxes which is 10 out of 100. The process of percentage have been displayed which is 10%.	Communication and collaboration Critical thinking and problem solving Student leadership and	AUDIO VIS RESOURI Percentage char Cardboards Pencils Coloring pens
	Importance: Percentages are used in calculating discounts on sales of goods, bank interest rates, rates of inflation They are important for understanding the	solve quantitative related questions on percentages	25% 25/100 0.75	personal development developme	https://study.com/ lemy/lesson.per/ lesson-plan.htm /ideo links ttps://m.youtube vatch?v=x1w00
	financial aspects of everyday life It helps to interpret a monthly budget	W is publishing y	75%	mtaX1	

MATHEMATICS TOPICS **LEARNING OBJECTIVES** LEARNING ACTIVITIES LEARNING WKS EMBEDDED CORE RESOURCES SKILLS ALGEBRAIC PROCESSES Pupils should be able to: **AUDIO VISUAL** Pupils in two groups do a role play on algebraic expression using an longer for hanging dresses. 4 Role play find missing numbers in open RESOURCES Student Simple equations sentences An hanger is on the handle of a classroom door pupils get 8-10 pegs of one colour (blue) and tie a thread to each of them, then tie 6pegs to Paper notes e.g. leadership and Solving equations, using use letters to represent boxes in money Physical the balance method open sentences Recording sheet development Solving real life solve real life problems QUANTITATIVE REASONING for pupil's Critical thinking problems using involving equations left side of the hanger and 2pegs to the right side of observation and problem the hanger. equations calculate the value of algebraic Multiplication and solving Quantitative reasoning It is observed that the position of the hanger is not expressions by substitution division flash Digital literacy balanced. To balance it, tie thread to another coloured pegs (red) and start to attach it one by one to the side of the hanger that dropped until it balances. Then solve quantitative aptitude cards problems on algebraic Site links Importance: https://study.com/aca expressions count the number of pegs used to balance the hanger. It is necessary for better demy/lesson/solving-THE EQUATION understanding of balancing algebraic-equations-Left Right quantity of commodities defination-6 blue pegs+2blue pegs= 8 blue pegs examples.html statistics and calculus 6 blue pegs+2blue pegs= 8 blue pegs 12 It is faster and better + 4 red pegs + 4 red pegs Video links than basic mathematics https://m.youtube.com 16 It reinforces logical 6 pegs+6 pegs= 12 pegs /watch?v=F1azJEdfx5 thinking 2 8 COMMERCIAL MATHS Pupils should be able to: **AUDIO VISUAL** 5 Pupils as a class do a role play of class business. Digital literacy RESOURCES Critical thinking MONEY recognize currencies used in Pupils are shared into two groups. A group sells Paper material products while the other buys the products Nigeria and other countries and problem Introduction to money convert from one currency to Dummy money is required for exchange. Also, e.g. money solving Conversion of the another, using the rate of profit and loss are observed. If the cost price is Communication Recording sheet currency of a country to greater than the selling price, there is loss for pupil's conversion and collaboration another country. observation solve problems involving profit observed but if the selling price is greater that the Student Profit and loss and loss in real life problems cost price, there is a profit. leadership and Quantitative reasoning Pupils in small groups use dummy monies to work Site links personal solve quantitative aptitude https://byjus.com/mat on the conversion of Nigerian currency (N) into development problems related to profit and hs/profit-and-lss/ Importance: other countries' currencies and vice versa using loss in money It is a medium of the official rate of exchange. exchange in day to day Video links https://m.youtube.com transactions /watch?v=RtqSqqRy8 It helps in payment of services and settling to bills for family needs e.g. education, health QUANTITATIVE REASONING care, charity, vacation trips etc. N200 N110 100 ₩5000 **₩**2500 **№**2500 AUDIO VISUA Charts on money of different denominations are COMMERCIAL MATHS Pupils should be able to: Communication RESOURCES MONEY placed around in the classroom and dummy and collaboration explain the simple interest in monies are given to the pupils. The pupils in class Money charts and Student business transactions. flash cards leadership and work in groups brainstorming on giving different Simple interest solve problems on discount and ways a smaller denominations can make up a personal Discount and commission Site links development commission bigger denomination and breaking down of a find commissions, discount, https://betterlesson.co Money transactions bigger denomination into smaller denominations. Critical thinking simple interest on real life Quantitative Reasoning Pupils do a role play on obtaining discount on and problem m/lesson/553000/sim problems e.g. post offices, sales of item(s) and getting commission from a ple-interest solving markets, etc. Importance: company on sales of products. solve problems involving money Video links Discount on sales draw transactions https://m.youtube.com customers to sales and QUANTITATIVE REASONING solve quantitative aptitude /watch?v=Y20HH6go services problems related to simple N1200 Rbk Money most important interest, discount, commission. function is as a medium of exchange to facilitate N600 N600 transaction N1800

UNIFIED SCHEMES OF WORK FOR PRIMARY 4-6

M1000

N800

124

WKS	TOPICS	LEARNING OBJECTIVE	LEARNING ACTIVITIES	EMBEDDED CO SKILLS	MATHEN RESO
-		A CANADA AND A CAN	Pupils are grouped into three or more groups to	Leadership skill	1,620
8.3	Review of the first half term's work and periodic test	Pupils should be able to: review the first half term's work participate in the periodic test.	do revision on topics treated. A group leader for each of the groups coordinates the activities. Allow the members of each group to participate	2000Clamp Skill	Exercise texthou
ngatanta.			and interact with each other. Pupils in pairs are asked to cut a polygon with	Communicati	
Care of the Care o	PLANE SHAPES (PERIMETER) Meaning of perimeter Perimeter of regular plane shapes Perimeter of irregular plane shapes Real life problems on perimeter Quantitative aptitude Importance: They help in quantifying physical space e.g. fencing plots of land, roofing	Pupils should be able to: explain the concept of perimeter find the perimeter of regular and irregular shapes solve the perimeter of a circle relate perimeter to real life problems and solve. solve quantitative aptitude problems related to perimeter of regular and irregular plane shapes	measured shapes. They join the polygons together to give just a shape. After doing that, measure the total length around the shape being created. Pupils in small groups use tape measure to measure the perimeter of desk in the class. Pupils in groups use a thread or fishing thread, cut	Communication and collaboration Role play Critical thinking and problem solving Digital literacy	AUDIO RESO Flash cards formulas of s of shapes Cardboards a polygon Scissors Site links https://study demy/lesson-plant lesson-plant
	of a house. They provide	hanned beautiful			1
85	foundation or more advance Mathematics found in algebra, trigonometry and calculus e.g. quantity of tiles or rug/carpet	r that are special to the state of the state	7 — 22	LE VOLT BHTAIR I STORE TO THE S	https://study.i demy/lesson/ r-of-regular-s lesson-plan.h
	to cover living room, rooms or toilet walls.	on one of the second of the standard of the st	Language Construction (Construction Construction Cons	2 1 4 1 4 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Video links
	OI LOHOL WAIIS.	DEATH TO AND THE PARTY OF THE P	c Street Street Street Street Street		https://m.you
		a dunarry manus to work as sr	1. Items to 199		/watch?v= y
		esse: Care (4) vone publisher general server uses on	5 20		<u>uc</u>
n c	PLANE SHAPES (AREA) Area of regular shapes Area of irregular shapes Area of right-angled triangle Real life problems on area Quantitative reasoning MPORTANCE: Farmers use it to know the number of seedling to plant on a small piece of land. Horticulturists use it to plant lowers or carper grasses on Ifield.	Pupils should be able to: find the area of regular, irregular shapes and its unit. calculate the area of right angled triangle. solve real life problems on area of regular, irregular and right- angled triangles solve quantitative aptitude problems related to area of regular, irregular and right- angled triangles	Pupils: -in pairs use the classroom in unlocking the concept of area. They count the number of columns in the class and multiply it with the number of rows, the resulting figure gives a rough estimate of area of the class in small groups draw a diagonal on a rectangular plane sheet to identify a right angle triangle. Use a pair of scissors to cut out the triangle and use a ruler to measure the base and the height. Then use the information to calculate the area. Sing songs on plane shapes. QUANTITATIVE REASONING Examples:		AUDION RESOU Cardboards Flash cards to the formula of shapes Charts contain different shap their areas Site links https://study.cd demv/lessonia irregular-shape lesson-clan.ht
	Painters use it to calculate		6 6	1	demv.lesson.pe
	ne number of paint buckets paint a room.	SCOOR AND SUPERIOR SU	36 82 72		-of-regular-shi esson-plan htr /ideo links https://m.youtul watch?v= 5fy)
	OLUME AND CAPACITY Measurement of volume in cubes and cuboids using unit cubes Measurement of volume in cubes and cuboids using formula Companing volume of spheres and cuboids Discovering relationships between litre and cubic centimeter Real life problems Quantitative reasoning importance: aboratones, and catering	Pupils should be able to: use units to find the volume of cube and cuboids use formula to find the volume of cuboid find the relationship between litres and cubic centimeters convert cm³ to litres and vice versa solve given problems in quantitative aptitude on volume and capacity	Pupils in small groups are taken for a gallery work round the school. They observe different storage materials that have their volumes and capacities written on them. For example water storage tank, water buckets, kegs, water bottles etc. They then compare the differences between all various types of materials with their respective volumes and capacities, arranging them in their increasing sizes QUANTITATIVE REASONI 1.4L 1.400cm ¹ 2.3L	Critical thinking and problem solving Communication and collaboration Student leadership and personal development Gallery walk	AUDIO VI RESOUR cloning pencik ecording osen ations ecording shee king observati ite links to study con my lesson vol oacity-lesson- is html deo links os://m.youtube atch?v=zVanQ

WKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CORE	MATHEMATICS LEARNING RESOURCES
	-It helps in the correct measurement of quantities e.g. groundnut oil, palm oil, kerosene, water etc.	1 (25%) 23 VIII 25 (1)	Part dos autobras files et un typus septe	SKILLS	RESOURCES
11	Average speed Distance Duration Real life problems. Quantitative reasoning Importance: -Used by travelers, motorists, tourists to plan activities and movements.	Pupils should be able to: find the duration between one time and another calculate the distance covered within a length of time solve the average speed of a moving object given the total distance travelled and the time taken convert the units of time express the hours of a clock in minutes, seconds and vice versa solve real life problems on distance, time and speed. solve quantitative aptitude relating to time`	Pupils as an individual checks and says the time on a wall clock placed at the front of the class. Pupils work in small groups. A leader is chosen, he chooses another pupil in the group. A distance of about 5m is set between two pupils, a timer is also set to record the time involved in the throwing and catching of a ball over a specified distance. This activity goes on repeatedly for 5m, 10m, 20m, 30m, for each group. respectively. At the end of the activities, the time differences are compared. The pupils will notice that the farther the distance, the more time it takes the ball to reach its final destination QUANTITATIVE REASONING	Critical thinking and problem solving Communication and collaboration Student leadership and personal development Digital literacy	AUDIO VISUAI RESOURCES Timer for checking time Ball Clock Site links https://study.com/aca demy/lesson/average speed-velocity- lesson-for-kids.html Video links https://m.youtube.com/watch?v=Q05MCut0 3Y
12	PROJECT Pupils are divided into two groups. Each group is to work on types of angles and types of triangles. Materials: ice-cream sticks, markers, cardboards and glue. Procedure: Paint the ice-cream sticks	By the end of the lesson, students should be able to: 1. interact within the group and discuss how each project work is done.	ii. Choose group leaders in each group. iii. Follow the procedure for the project. iii. Each group leader gives a presentation on mode of operation. iv. The students take a gallery walk where the projects are displayed.	-Leadership Skill -Communication and collaboration (Team work) -Critical thinking -Citizenship	
	with markers of different colours, arrange the sticks by using glue to paste them on a cardboard to form types of angles and types of triangles in each of the respective groups.		hematics Lesson Notes		
# 1 		@CI	_ASSBASIC.COM	V	
12	Project/Practical work and Revision of first term's work and preparation for Examination.	Pupils should be able to: Realize the areas of weakness in the topics treated for the term.	Pupils are arranged into groups for tutorial. The teacher supervises, corrects and marks the students' exercises/activities in each group	Collaboration Communication Leadership Skills Critical Thinking	
13	EXAMINATION	EXAMINATION	EXAMINATION	EXAMINATION	EXAMINATION

UNIFIED SCHEMES OF WORK FOR PRIMARY 4-6 (126)



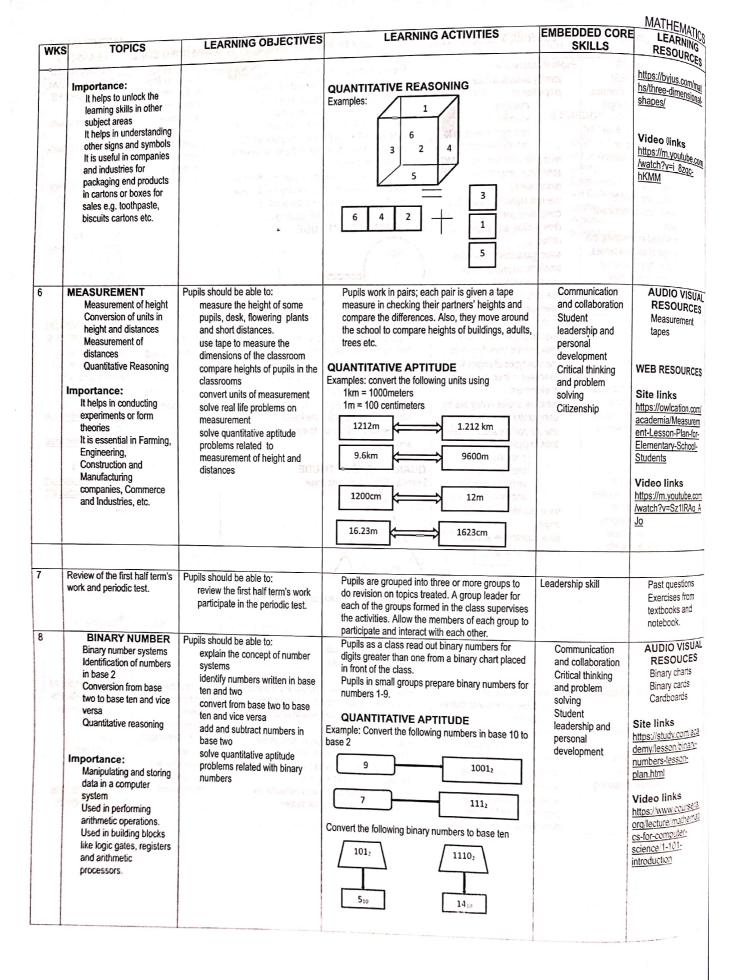
Term 3 Primary 5

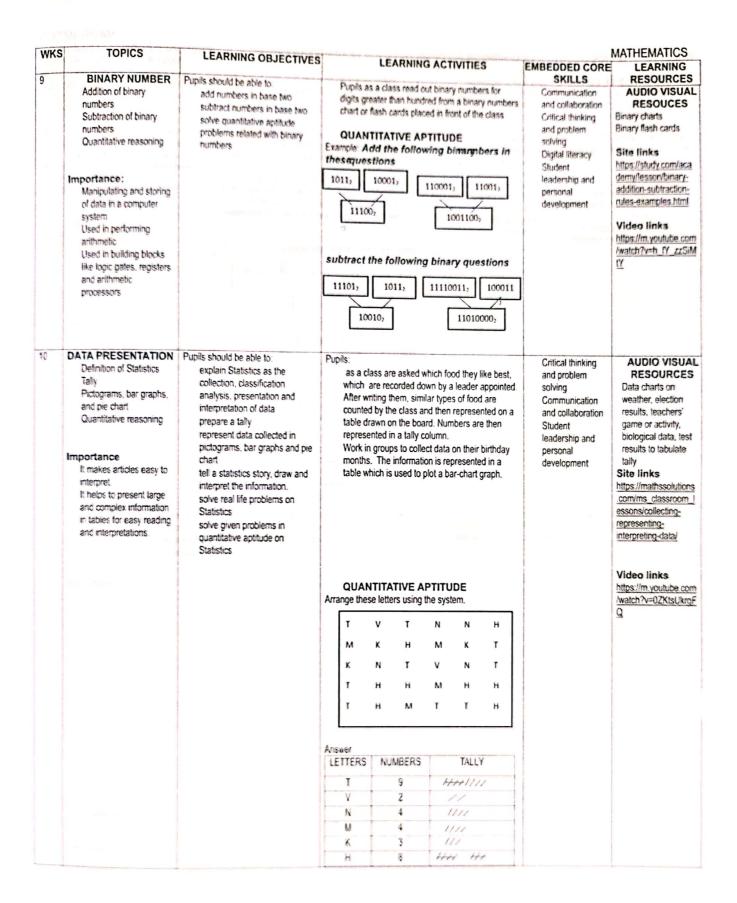
LAGOS STATE MINISTRY OF EDUCATION NUMBER OF WORK FOR PRIMARY SCHOOLS

(MATHEMATICS FOR PRIMARY SCHOOL) PRIMARY FIVE THIRD TERM

-	TOPICS	LEARNING OBJECTIVES		EMBEDDED CORI	
WKS	REVISION/ TEMPERATURE Temperature of objects and towns in degrees Celsius Conversion of centigrade to Fahrenheit Conversion of Fahrenheit to Centigrade Real life problems on temperature Quantitative reasoning Importance: It plays a crucial role in Medical care, Foods and Beverages companies, Agricultural products processing It helps to check and monitor body temperature.	Pupils should be able to: Discuss the meaning of temperature. compare the degree of hotness or coldness in degree Celsius convert a given temperature in Centigrade to Fahrenheit change a given temperature in Fahrenheit to Centigrade appreciate the usefulness of temperature in our daily life solve quantitative aptitude problems related to temperature	Pupils: as individuals are asked to give their understanding of temperature and share with the class 3 to 4 pupils in the class use thermometer to examine their temperatures. Pupils in groups are given three cups each (each cup containing ice water, warm water and hot water). They use thermometer to check the temperatures of the water in each the cups and write their observations. After doing that, one cup is retained in the class, two cups are taken outside- one inside the sun and the other in the shade under a tree for ten minutes. Later-on, they check the differences in the three cups and write their observations QUANTITATIVE REASONING Examples: convert the following temperatures from Celsius to Fahrenheit using the formula (9/5 0) + 32	Critical thinking and problem solving Communication and Collaboration Leadership and Personal development	RESON RESON Plastic of Ice Warm w. Refriger, Water Recordin Site links https://wwwcom/lesson- plan/time-mo temperature/ Videdinks https://m.you /watch?v=will k
			Examples: convert the following temperature from Celsius to Kelvin using the formula $K = {}^{\circ}\text{C} + 273$ $\boxed{30^{\circ}\text{c}}$ $\boxed{77^{\circ}\text{c}}$ $\boxed{13^{\circ}\text{c}}$ $\boxed{303K}$ $\boxed{350K}$ $\boxed{286K}$	Little British And Committee Committ	
1	Parallel and perpendicular lines Complementary and supplementary angles Quantitative reasoning Importance: Angles are used for designing and construction of roads, buildings and sporting facilities	Pupils should be able to: identify parallel and perpendicular lines in measuring and drawing angles, using the protractor identify and calculate the complementary, opposite and supplementary angles by telling the directions accurately using angles in real life situations. solve quantitative aptitude problems on parallel and perpendicular lines, complementary and supplementary lines	Pupils: use body parts to demonstrate types of angles. use broomsticks or straws to demonstrate lines and how angles are formed. work in pairs, use their writing materials, e.g. a pair of compass ruler, pencils, to construct lines and angles QUANTITATIVE APTITUDE Categorize the following lines into horizontal, vertical or oblique	and problem solving Student leadership and personal development	AUDIO \ RESOU Cardboard Writing materi Flash cards Site links https://www.ei .com/lesson- plan/angles-ai Video links https://m.yout watch?v=SUc

WKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CORE	MATHEMATICS LEARNING
AAICO			ELAKNING ACTIVITIES		RESOURCES
3	PLANE SHAPES (PROPERTIES) Properties of a rhombus, square and rectangle Quadrilaterals Components of circle Real life problems. Quantitative reasoning Importance: Circles are used to symbolize harmony and unity It is used in designing the shape of camera lenses, pizzas, tyres, steering wheels, cakes, pies,	Pupils should be able to: identify types and state basic properties of rhombus square rectangle in relation to real life situations. recognize quadrilaterals and state basic properties of quadrilaterals use real object to discuss the component parts of a circle and draw a circle with a specified radius. solve quantitative reasoning problems on properties of	Pupils in groups gets random circles that can be folded and measured. The circle will include several sizes of paper plates, pizza box inserts in different number of sizes. They use a thread/string to measure the circumference of their circles for comparism, then place each thread on a ruler to measure the length which is the circumference. Then fold each circle into a quarter to find the point of intersection i.e. to identify the diameter. Use the measurement from the point of intersection to identify the radius too. QUANTITATIVE APTITUDE	Communication and collaboration Critical thinking and problem solving Student leadership and personal development	RESOURCES AUDIO VISUAL RESOURCES Thread Recording sheets Materials e.g. paper, cardboards Site links https://study.com/aca demy/lesson/plane- shapes-types- properties.html Video links https://study.com/aca demy/lesson/plane- shapes-types- properties.html
	buttons, etc.	square, rectangle, quadrilaterals, circle solve real life problems	88cm	Time Time	ргорегиез.нали
4	Angles Types of angles Transversal Measurement of angles Sum of angles on a straight line and shapes Quantitative reasoning Importance: Angles are used in constructions of houses Angles are used in making cloth hangers, scissors, arrowhead, windows, doors, etc.	Pupils should be able to: explain angles as a space between two lines that meet mention types of angles with examples in their immediate environment. measure angles in degrees by using protractor use the parallel and transversal lines to determine: corresponding alternate and vertically opposite angles solve real life problems on angles. solve quantitative aptitude problems on angles	Pupils: in pairs fold a piece of paper into two, the second time on the first straight line. A right-angled triangle is formed work individually to do physical exercises to identify the types and formation of angles, e.g. stretching and folding arms to certain degrees, curving elbows, bending the knees etc. turn the hands of a clock to measure different angles. QUANTITATIVE APTITUDE Example: Find the missing angle	Student leadership and Personnel development Critical thinking and problem solving	AUDIO VISUAL RESOURCES Angles flash cards Charts containing all types of angles for easy learning Site links https://www.education.com/lesson-plan/angles-and-lines/ Video links https://m.youtube.com/watch?v=SUc56Ub1t
	27 (175) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Add all angles together (sum of angles in a triangle is 180°) $50 + 80 + x = 180$ $130 + x = 180$ Subtract 130 from both sides $130 - 130 + x = 180 - 130$ $X = 50^{\circ}$	1160 2000 2000 2000 2000 2000 2000 2000	
5	THREE DIMENSIONAL SHAPES Cube, cuboid and pyramid Square base and triangular prism Quantitative reasoning	Pupils should be able to: make three dimensional shapes using their net develop interest in the constructing nets of cube, cuboids and pyramid identify prism and pyramid solve real life problems. solve quantitative aptitude problems related to three	Pupils work in groups. They are to cut cardboards into different two-dimensional shapes, then join them using glue or paper sellotape to form three dimensional shapes. Pupils work in small groups to decompose different three dimensional shapes e.g. carton of juice, tin of milk by using a tin cutter etc. Record the shapes that can be derived. Then use a paper sellotape to compose the shapes back to their original shapes.	Critical thinking and problem solving Communication and collaboration Student leadership and personal development	AUDIO VISUAL RE RICES Paper materials scissors glue cardboards Site links https://academy/lesso n/3d-shapes-lesson- plan.html







WKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED COR SKILLS	MATH LE
11	MEASURES OF CENTRAL TENDENCY Mode Median Mean Probability Quantitative reasoning Importance: It helps in representation of a large set of data in a	numbers identify the median from a given set of numbers calculate mean of a given set of numbers solve problems on chances of events solve real life problems on measure of central tendencies	Pupils as a class do a role play, nine pupils are lined up in front of the classroom. Their heights are studied by the rest of the class, then line up in descending order (tallest to the shortest), the most common height is the mode, the height at the middle of the pupils lined up is the median and the total numbers of the pupils' heights divided by the total number of pupils standing which is the mean Pupils in groups arrange given number cards orderly, then select the numbers into category of sizes. The pupils identify and calculate the	Critical thinking and Problem solving Communication and Collaboration Student leadership and Personal development	RES AUDI RES Cardho
750 B	system. It helps in collation of information on extreme	and probability solve quantitative aptitude problems relating to time`	mode, the median and the mean of the numbers given.	1 27	Video
	values.	g bittary questions	QUANTITATIVE REASONING	21.1	https://m.y
	Maria Antonia de la compansión de la compa	[POCE] POLITY	Mean DATA Mode		M
		TANK TOTAL	Median	9	-
	La roman de	in 1945 and the state of the second	Find the mean, median and mode of the following questions	o and a second	
333	Stroets person	artisc constitute or based and and artisched artisched and artisched artisched and artisched artisched and artisched artisch	3, 4, 6, 3, 2, 5, 3, 2, 3, 8	Miles Miles	
-	THE STREET OF STREET	uer gover et taon i re cou troi représe tors on a	Users and markets and the second of the seco		
lan I	the state of the pro-	could be the property of a second of the sec	22 12, 14, 17, 20, 35, 17, 17	15 (5) (15 (5)	
	exellent Bester	on is represented in a least of a littlewe that a bar-phart graph	of the supplier of the suppline of the supplier of the supplier of the supplier of the supplin		
7	NO. 1 100.				
	Project/Practical work and Revision of first term's work	Pupils should be able to: Realize the areas of weakness in the topics treated for the term.	Pupils are arranged into groups for tutorial. The teacher supervises, corrects and marks the pupils' exercises/activities in each group.	Collaboration Communication Leadership Skills Critical Thinking	900
-	EXAMINATION.	EXAMINATION.	EXAMINATION.	EXAMINATION.	XAMINAT

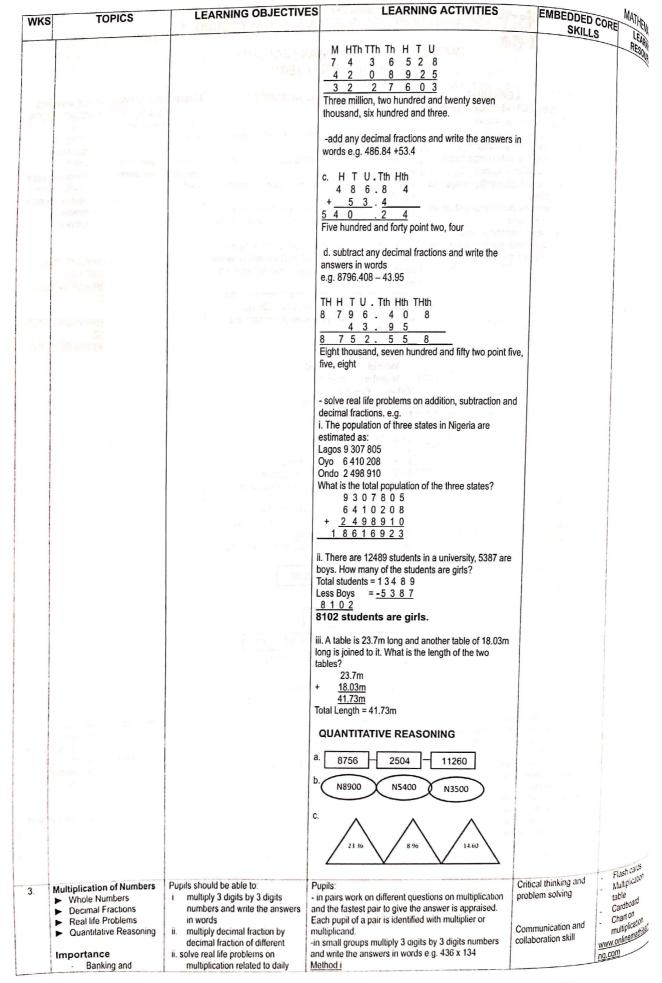
Mathematics Plan Lesson Notes @CLASSBASIC.COM



LAGOS STATE MINISTRY OF EDUCATION UNIFIED SCHEMES OF WORK FOR PRIMARY SCHOOLS

(MATHEMATICS FOR PRIMARY SCHOOL) PRIMARY SIX FIRST TERM

WKS	TOPICS	LEARNING OBJECTIVES /CONTENTS	LEARNING ACTIVITIES	EMBEDDED CORE	LEARNING RESOURCES
1.	WHOLE NUMBERS a. Reading and writing numbers in millions up to billions in words and figures b. Skip counting in thousands, millions and billions. c. Place value and value of whole numbers . d. Quantitative Reasoning Importance - Banking - Census Office - Budgeting	Pupils should be able to: i. read and write numbers up to one billion in words ii. read and write numbers up to one billion in figures iii. count in thousands, millions and billions iv. write the place value and values of numbers v. solve quantitative reasoning questions related to thousands, millions and billions.	Pupils: - as a class skip count in thousands up to hundred millions2 -3 pupils use skipping rope to count in thousands and millions, -read and write numbers up to one billion in words e.g. 1825408756 = one billion, eight hundred and twenty five million, four hundred and eight thousand, seven hundred and fifty six -read and write numbers up to one billion in figures e.g. one billion, three hundred and forty million, seven hundred and eighty two thousand, four hundred and ten = 1 340 782 410 -count in thousands, millions and billions e.g. 5 000 000; 10 000 000; 15 000 000; 20 000 000 etc vi. write Place value and values of numbers: e.g. 1465.3872	Communication and Collaboration. Leadership and personal development Skills	- Abacus - Charts of Numbers up to billion Cardboard paper - Overlap cards - Number cards in thousands, millions. www.math-only- math.com www.waitbutwhy.co m www.youtube.com,m ath www.mathhelp.com
	- Journalism - Education - Business		1465 . 3872 Whole Decimal Number number Value Place Value 1 = 1 x 1000 = 1000Thousand 4 = 4 x 100 = 400 Hundred 6 = 6 x 10 = 60 Ten 5 = 5 x 1 = 5Unit 3 = 3 x ¹ / ₁₀ = ³ / ₁₀ = 0.3 Tenth 8 = 8 x ¹ / ₁₀₀ = ⁸ / ₁₀₀ = 0.08Hundredth 7 = 7 x ¹ / ₁₀₀₀ = ² / ₁₀₀₀₀ = 0.007 Thousandth 2 = 2 x ¹ / ₁₀₀₀₀ = ² / ₁₀₀₀₀ = 0.0002Ten Thousandth Express in expansion form: 1465.3872 = 1000 00 + 60 + 5 + 3 ¹ / ₁₀ + 8 ¹ / ₁₀₀ + 7 ¹ / ₁₀₀₀ + 2 ¹ / ₁₀₀₀ Quantitative Reasoning Solve questions related to thousands, millions and billions. e.g. a. 6000 8000		
			b. 4000000 4 3000000 2000000 c. 5 000 000 000		
2.	Addition and Subtraction of numbers (a) Whole Numbers (b) Decimal Fraction (c) Real Problems on addition and subtraction of numbers. (d) Quantitative Reasoning. Importance - Banking - Census Office - Budgeting - Journalism - Education - Business / Trading	Pupils should be able to: a. add any 4 – 10 digits numbers and write the answers in words e.g. b. subtract and 4 – 10 digits numbers and write the answers in words c. add any decimal fractions and write the answers in words d. subtract any decimal fractions and write the answers in words e. solve real life problems on addition, subtraction and decimal fractions. f. solve quantitative reasoning related to addition and subtraction of numbers.	-Pupils in pairs use number cards to calculate the sum of 5 or 8 digits numberstell addition story and subtraction story on large numbers and solve themadd any 4 – 10 digits numbers and write the answers in words e.g. a. 436050 + 784275 HTh TTh Th Th H T U 4 3 6 0 5 0 + 7 8 4 2 7 5 1 2 2 0 3 2 5 One million, two hundred and twenty thousand, three hundred and twenty five subtract two 4 – 10 digits numbers and write the answers in words e.g. (b)7436528 – 4208925	-Communication and Collaboration -Leadership and personal development skills	 Abacus Population Distribution Chart Addition and Subtraction Charts www.purplemath.com



WKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CORE	LEARNING
4.	Division of Numbers Whole Numbers Decimal Numbers Real life Problems Quantitative Reasoning Importance:	Pupils should be able to: a. divide whole numbers by 2 digits and 3 digits numbers without and with remainder b. interpret and solve daily life activities exercises on division c. solve quantitative reasoning related to division in real.	Pupils are grouped to perform these activities: -divide whole numbers by 2 digits and 3 digits numbers without and with remainder e.g. i. 210 +15 14 15210 - 150 - Subtract 10 x 15	SKILLS Leadership and personal development skills.	RESOURCES - Multiplication table - Division rules chart -
	It helps in the sharing of items or commodities among people.	The Statements services and processing of the service of the servi	60 -60 - Subtract 4 x 15 00 :.210 +15 = 14 Note 210 is the dividend 15 is the divisor 14 is the quotient		
		र्वज्ञाल के प्रचलत कार्सन क्रांस्ट क	ii. 4756 +23 <u>206</u> 23 4756 -\frac{4600}{15} (subtract 200 x 23) 15 -\frac{0}{0} (subtract 0 x 23)		
			156 -138 (subtract 6 x 23) 18 (remainder) 4756 +23 = 206 Rm18 - divide decimal numbers by whole numbers and	,	
			decimal numbers e.g. a. 43.26 +10 4.326 10 43.26 - 40 (subtract 4 x 10) 32 (take the point up -30 and bring down 2). 26 (bring down 6)		
		1	- 20 60 (add 0) -60 (subtract 6 x 10) Quantitative Reasoning		
		4	16,946 458 37 3.36 1.18		
	 Finance Marketing Insurance Industrial Companies. 	life activities iii. solve quantitative reasoning related to multiplication.	1 3 6 (multiplier) x1 3 4 (multiplicand) 17 4 4 (436 x 4 = 1744) 13 0 8 0 (436 x 30 = 13080) + 4 3 6 0 0 (436 x 100 = 43600) 5 8 4 2 4 (Fifty eight thousand, four hundred and twenty four. Method ii 436 x 134 = 436 x 100 + 436 x 30 + 436 x 4 = 43600+13080+1744 = 58424 Multiplication by value method.		
			 Multiply decimal fraction by decimal fraction of different forms e.g. 3.12 x 4.2 3.12 (2 dp) x 4.2 (1dp) 624 1248 13.104 2dp + 1dp = 3dp, therefore count three digits from your right hand side (RHS) and put a point. 		
	Strong A Str A		- tell multiplication story on daily life activities and solve e.g. a. What is the payment made to 15 workers if each receives N45840 monthly?	Envis Borre	
	Marian Ma Ma Marian Marian Marian Marian Marian Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma		A worker receives N45840 monthly: . 15 of such worker will receive a total of N45,840 x 15 = N45,840 (10+5) = N45,840 x 10 + N45,840 x 5 = N45,840 + N219,200 = N687,600	1	

	Spirited Barthern	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			MATHEMATICS
WKS	TOPICS OF	LEARNING OBJECTIVES	LEARNING ACTIVITIES HAS	EMBEDDED CORE	
actor	-Quantitative Reasoning. Importance: -To find the interval at which events occurIt helps in solving problems related to track races , traffic	v. solve quantitative reasoning questions related to L.C.M and	multiple method e.g. What is the LCM of 3 and 4? Multiples of: 3 are 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36 4 are 4, 8, 12, 16, 20, 24, 28, 32, 36, 40 Common multiples of 3 and 4 are 12, 24, 36 Lowest Common Multiple is 12 in pairs find the L.C.M of 2 or 3 digits using prime	De gematica?	www.study.com www.onlinemathlearn ng.com
	lights etc		factors method e.g. Find the LCM of 3, 6 and 8 2 3 6 8 2 3 3 4 2 3 3 3 1 1 1		
			LCM = 2 x 2 x 2 x 3 = 24		
		्रमार क्षा क्षा ११ व. क्षाक	i. find the HCF of any given 2 or 3 numbers using the factor method e.g. use factor method to find the H.C.F of 15 and 20. Factors of 15 are 1, 3, 5, 15 20 are 1, 2, 4, 5, 10, 20 Common factor = 5 Highest common factor = 5		
		Harmon de la companya	- interpret and solve daily life activities related to L.C.M and H.C.F e.g. Three clocks ring alarm at an interval of 15, 25 and 30 seconds. At what time will they ring together again? Find their L.C.M 2 15 25 30	1	
		247 °C = 8481 + 547 B	3 15 25 15 5 5 25 5 5 1 5 1 1 1 1 :LCM = 2 x 3 x 5 x 5 = 150 seconds. They will ring alarm together in 150 seconds		
t	Fractions and Decimals a. Addition and subtraction of fractions b. Multiplication and division on fractions c. Real life problems on	a. add and subtract any given set of fractions. b. multiply and divide any given set of fractions c. change fractions to decimals and	Quantitative Reasoning A. i. 24 ii. 30 B. i 15 30 15 20 30 10 Pupils in small groups: - are given packs of fractional cards to arrange according to types of fractions add and subtract any given set of fractions cards e.g. i. $3/5 + 2/3$ ii. $84/7 - 5/2$	Critical thinking and problem solving Communication and collaboration skills	Packs of fractional cards Cardboard Sheet of paper Wall clock
	fractions. d. Quantitative reasoning	e. solve problems on quantitative	$3J_5 + 2J_3$ (first, find the LCM of 5 and 3) which is 15 $3J_5 + 2J_3 = (3 \times 3) + (5 \times 2)$ 15 $= 9 + 10J_{15} = 19J_{15} = 14J_{15}$		www.prodigygame.co m www.mathhelp.com
		t g o sanov sami basi su c	i, $847_7 - 5\frac{1}{2}$ (LCM of 7 and 2 is 14) $347_7 - 5\frac{1}{2} = (8 - 5) \frac{(8 - 7)}{14}$ = $31\frac{1}{4}$		
		, par	Alternatively; 84/7 – 5½ (firstly, change the mixed numbers to improper fractions)		
		5	$\frac{8 \times 7) + 4}{7} - \frac{(5 \times 2) + 1}{2}$ $\frac{16 + 4}{7} - \frac{10 + 1}{2}$ $\frac{1 \times 60 - 7 \times 11}{14}$ $\frac{120 - 77}{14} = 43/14 = 31/14$	ntopal ^d se	
	Mary Comments	b	14 . multiply and divide any given set of fractions e.g. 1/5 x 2/r	1 2	-2. 2

/KS	TOPICS	LEARNING OBJECTIVES		EMBEDDED CORE	
	Quantitative Reasoning IMPORTANCE: -Orderliness of items or quantities.	BODMAS c. simplify world problems related to daily life activities on order of operations d. solve quantilative reasoning problems related to order of operations e. use basic operations in the right order f. explain the steps involved in using order of operation i.e. BODMAS.	D = 3^{rd} - Division – Follows; then M= 4^{th} - Multiplication A = 5^{th} - Addition is done after multiplication S = 6^{th} - Subtraction is done last NB: These steps need to be followed for solving whole numbers and fractions in exercises. e.g. i. Simplify: $(4 + 5) \times 8 + 2 - 5$ ii. Evaluate: $\frac{3}{4} + \frac{5}{6} \times \frac{2}{5} + 4$ i. $(4 + 5) \times 8 + 2 - 5$ = $9 \times 8 + 2 - 5$ = $9 \times 8 + 2 - 5$ = $9 \times 4 - 5 = 36 - 5 = 31$ ii. $\frac{3}{4} + \frac{5}{6} \times \frac{2}{5} + \frac{4}{1}$		RESO - Division chart - BODWA - BODWA - WINN 25005
		general and the second of the	$3/4 + 5/6 \times 2/5 \times 1/4$ $3/4 + 5/6 \times 1/10$ $3/4 + 1/6 \times 1/2 = 3/4 + 1/12$ $= 3/4 + 1/12 = 3 \times 3 + 1 \times 1$ $= 12$ $= 5/6$ - simplify world problems related to daily life activities on order of operations e.g. 8 sacks of onions weight 163.2kg and 5 bags of salt weigh 60kg. What is the total weight of one sack of		
		ena _{pl} u in sanct fo	onion and one bag of salt? 8 sacks of onions weigh = 163.2kg 1 sack of onion = ${}^{163.2k}/_8$ = 20.4kg 5 bags of salt = ${}^{60kg}/_5$ = 12kg Therefore: Total weight = 20.4kg + 12kg = 32.4kg		
		g/ ·	ii. $3^{4}/_{5} + 3^{3}/_{5}$ i. $1/_{5} \times 2^{2}/_{7} = \frac{1\times 2}{5\times 7} = 2/_{35}$ ii. $3^{4}/_{5} + 3/_{5} = 19/_{5} + 3/_{5} = 19/_{5} \times 5/_{3} = 19/_{3}$ = 6 $1/_{3}$		
			c. interpret and solve real life problems on fractions and decimals. e.g. A man traveled 4% km and then $10^3/_5$ km. Find the total distance of his journey Total Journey = 4% km + $10^2/_5$ km 4% + $10^2/_5$ = $(4 + 10) \%$ + $2/_5$ = 14% + $2/_5$ = 14% + $2/_5$ = 14% + $2/_5$ = 14% + $2/_5$ = 14% + $2/_5$ = 14% + $2/_5$ = 14% + $2/_5$ = 14% + $2/_5$ = 14% + 13% = 14% = 13% = 14% = 13% = 14% = 13% = 14% = 13% =	December 9 companies 10 compani	
	MIN TEDIA DDE AV	MID TERM BREAK	-change fractions to decimals and vice versa e.g. i. $3/5 = 0.6$ ii. $0.05 = 5/100 = 1/20$ Quantitative Reasoning $3\frac{1}{4} \qquad 1\frac{1}{4} \qquad 4\frac{1}{4}$ MID TERM BREAK	MID TERM BREAK	MID TERM
7.	MID TERM BREAK Order of Basic	Pupils should be able to:	Pupils:	Leadership and	Numbers a Fractions F

WKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED COR	LEARNING RESOURCES
		SEY SCHOOL)	Quantitative Reasoning 1. 80-40 + 5 72 3/ ₅ x (½ x ¾) 13/ ₅	3	amorato de di
9.	Scale Drawing: Objects Maps Distance Importance: It can be used by the Surveyor, Architects, Pilots etc.	Pupils should be able to: a. draw plane shapes according to a given scale b. apply and use scale drawing in converting lengths and distances of objects in their environment with a given scale. c. interpret and solve real life problems on scale drawing.	Pupils: - in pairs use ruler or tape measure to measure the length of their tables, teacher's table, their classroom, marker board e.t.c. and convert their measurement to a given scale in small groups draw plane shapes according to a given scale -apply and use scale drawing in converting length and distance of objects in their environment to a required scale. Example;	Citizenship Leadership and Personal development skill. Communication and Collaboration	- Ruler - Type rule - Pencil - Cardboard paper www.youtube.com/s
		Consider of Constitution of Co	12cm Of what scale are these diagrams? 9cm/ _{12cm} = 3/4 Scale = 3cm: 4cm - interpret and solve real life problems on scale drawing e.g. If the length of a table is in 1cm = 20m. What is the actual length of 2.5cm? = 2.5 x 20m = 50m.		
	Approximation and Estimation i. Whole numbers ii. Decimal numbers iii. Quantitative Reasoning Importance: -It is used by the Architect to sketch the plan of a building.	i. round u whole numbers to the nearest ten, hundred and thousand ii. round up decimal numbers ii. solve quantitative reasoning on approximation	Pupils: in small groups prepare Round up numbers scale by using cardboard. In small groups take measurement of playground and approximate the length to nearest ten or hundred. It is a small groups take measurement of playground and approximate the length to nearest ten or hundred. It is a small groups take measurement of playground and approximate the length to nearest ten or hundred. Round up to 0 Round up to 1 round up whole numbers to the nearest ten, hundred and thousand. Examples as Write in nearest hundred and ten (i) 4537 (ii) research tendred of 4537 4500 research ten of 4537 4540 research tendred and research tendred and tendred research tendred re	Leadership and personal development skill Citizenship Communication and Collaboration	www.my.homecampt s.com www.youtube.com/ar promation
		-ii	n small groups estimate the value of 38 x 63		
F	ROJECT	Pupils should be able to: Revise and put into practice all what they learnt in first term topics.	when 38 is rounded off to nearest ten; then 38 40 and when 63 is rounded off to nearest ten; then 3 60 8 x 63 = 40 x 60 = 2394 2400 Quantitative Reasoning i. 2.34 2.00 (1st) 56 6.00 (1st) raw map of Nigeria and specify the scale to be used reach state.	EXAMINATIONS	EXAMINATIONS

UNIFIED SCHEMES OF WORK FOR PRIMARY 4-6 (138)



LAGOS STATE MINISTRY OF EDUCATION UNIFIED SCHEMES OF WORK FOR PRIMARY SCHOOLS

(MATHEMATICS FOR PRIMARY SCHOOL) PRIMARY SIX SECOND TERM

WKS	11	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CO SKILLS	RE In
1.	Revision of first term's topics: Emphasis on whole numbers, decimal numbers and fractions.		Pupils: - in small groups practice exercises on first term topics and questions from first term examination - as individual participate in the Resumption	t Communication and Collaboration. Leadership and Persona development. Critical thinking and	Exercises for work and how examination Mathematics
2	Ratio and Proportion - Direct Proportion - Inverse Proportion - Real life problems on ratio and proportion Quantitative Reasoning. IMPORTANCE: -It helps in the sharing of items - Shares and dividends	Pupils should be able to: a. discuss the meaning of ratio and solve problems on ratio b. interpret and solve direct proportion equations c. interpret and solve inverse proportion equations e. solve Quantitative Reasoning exercises on ratio and proportion	Pupils in small groups: - express their ages in ratio and recorddiscuss the meaning of ratio and solve problems on ratio e.g. There are 30 boys and 40 girls in a class. What is the ratio of boys to girls? = Boyf _{Girls} = 30/40 = 3/4 ratio = 3:4 - interpret and solve questions on direct proportion e.g. 20 shoes cost N300. What is the cost of 25 shoes at the same rate? 20 shoes cost = N300.00 1 shoe cost S = N309 ₂₀ = N15.00 :.25 shoes will cost 25 x N15 = N375.00 -interpret and solve inverse proportion equations. e.g. 9 men can finish a job in 8 days. How many men will finish the job in 12 days, if they work at the same rate? 9 men takes 8 days 1 man will take = 9 x 8 days = 72 days number of men for 12days = 72days/12day = 6	Problem solving. Communication and Collaboration Citizenship	Chart on ratio proportion Mathematics a Pupils ages www.onlinema om www.coolmath
			6 men take 12 days - share N450 between Audu and Dele in ratio 2:3 Total ratio = 2+3 = 5 Audu's share = ² / ₅ x N450 = 2 x N90 = N180 Dele's share = ³ / ₅ x N450 = 3 x N90 = N270 Therefore; Audu will get N180 and Dele gets N270 Quantitative Reasoning e.g 2 i. 8boys 10 days 20 boys 4 days		
	states in a country.	a express one number as a percentage of another b. solve exercises on percentage increase and decrease c. solve real life problems on percentages	Pupils in small groups: study percentage scores of a pupil's result n an examination. express one number as a percentage of mother e.g. what percentage of N400 is 420? 420 x 100% = 5% 4400 1 solve exercises on percentage increase	Problem solving	Pupilis scores in examination Chart on percential Multiplication take www.shack.com mainematics/

IKS	TOPICS	LEARNING OBJECTĮVES	LEARNING ACTIVITIES	EMBEDDED CORE SKILLS	LEARNING RESOURCES
Const P	See Addition		and decrease. Thus: i. % increase = increase x 100% initial value 1 ii. % decrease = decrease x 100% initial value 1	Sines	THE PROPERTY OF THE PROPERTY O
	Manager State Committee Co	Service and American Advanced and American A	Example: i. The population of a village increases from 800 people to 1000 people. What is the percentage increase? Increase = 1000 – 800 = 200 % increase = 200/ ₈₀₀ x 100%/ ₁ = ½ x 100%/ ₁ = 25%	imorta affigara and consistencia a figuraria a figurar	Districts guessions of the control o
			ii. Decrease N300 by 25% = N300/ ₁ x ^{25/₁₀₀} = N75. :.N300 – N75 = N225 Method II Decrease N300 by 25% = (100 – 25)% = 75%	per cell paragraphic communication of the communica	Jestine in operation of the second of the se
			:. N300/1 x 75% = N300/1 x 75/100 = N225 Quantitative Reasoning 1/4 25% 30%		
4	Indices (Power) -Numbers in index form -Rules of indices -Real life problems -Quantitative Reasoning	Pupils should be able to: a. write numbers in index forms b. solve exercises involving c. use rule of indices of multiplication and division to solve	Pupils as individual sing or recite square table song i.e. 2², 3²,4², 5²etc = 4, 9, 16, 25, write numbers in index forms e.g. 32 = 2 x 2 x 2 x 2 x 2 x 2 = 25 27 = 3 x 3 x 3 = 3³	Leadership and Personal development.	Chart of square Chart of square root Multiplication table Chart of indices Chart of rules of indices
	Importance They are used in computer gamesThey are used in Engineering, Economics, Accounting and Finances	exercises d. use indices (power) to solve daily life activities. e. solve quantitative reasoning on indices.	- solve exercises involving power e.g. i. $\frac{2^3 \times 3}{2^2 \times 3^2}$ $\frac{2^3 \times 3}{2^2 \times 3^2} = \frac{2 \times 2 \times 2 \times 3}{2 \times 2 \times 3 \times 3} = \frac{1}{3}$ - use rule of indices of multiplication and division to solve exercises i.e i. $n^2 \times n^3 = n^{2+3} = n^5$ e.g. $3^3 \times 3^3 = 3^{3+4} = 3^7$ $x^7 + x^5 = x^{7-5} = x^2$ e.g. $4^5 + 4^2 = 4^{5\cdot2} = 4^3$ NB: any number raises to power zero is equal to 1^0 i.e. $5^0 = 1$ or $9^0 = 1$		www.khanacademic.com www.youtube.com/indice
			Simplify: 2³ x 2 ÷2² x 2⁰ = 2³ · 1 · 2 · 0 = 2² e g evaluate: 5² x 3° = 5 x 5 x 1 = 5² - use indices (power) to solve daily life activities e g Pencils are arranged in pile of 3 Find the total number of pencils in 4 piles. Total number of pencils in 4 piles = 3⁴ = 3 x 3 x 3 x 3 x 3 = 81 pencils		
Magazines in session or and			Quantitative Reasoning	and the second	1 page 1, 1 8

ntage to the

i. Addition and subtraction ii. Multiplication and division. iii. Reciprocal of numbers. b. Real life Problems on open sentences c. Quantitative Reasoning b. ex Importance: -It helps to project and plan for an event that is about to occur. R Tr re of	Pupils should be able to: Interpret word problems and real fe problems into open sentences and solve correctly Isolve addition and subtraction of pen sentences Isolve multiplication and division pen sentences Reciprocal of number: the reciprocal of 5 is 1/5 and the reciprocal 1/5 is 5. Also the reciprocal f 2/3 is 3/2. Since 2/3 x 3/2 = 1 Isolve quantitative reasoning on pen sentences	iii. 1 3 9 27 iv. 1 4 8 Pupils in groups: - tell stories on open sentences and solve them. - interpret word problems and real life problems into open sentences and solve correctly e.g. the length of a rectangle is 6 times its width. If the perimeter is 182cm. Calculate its length. Let the width be x :.Length = 6cc x = 6cc Perimeter = 2 (L + W) 182cm = 2 (6x + x) = 2 (7x) 182cm = 14x Divide both sides by 14 i.e. \(^{14x}\)_{14} = \(^{182cm}\)_{14} x = 13cm length = 6 x 13cm = 78xm - solve addition and subtraction of open sentences e.g. i. a + 13 = 23 ii. 2x - 5 = 11 Find the value of each letter i. a + 13 = 23 a = 23 - 13 = 10 ii. 2x - 5 = 11 2x = 11 + 5 2x = 16 Divide both sides by the coefficient of x	Communication and Collaboration skills Critical thinking and Problem solving	Cardboard pa Cardboard pa Charl of enua Flash cards of sentences www.products
i. Addition and subtraction ii. Multiplication and division. iii. Reciprocal of numbers. b. Real life Problems on open sentences c. Quantitative Reasoning b. ex Importance: -It helps to project and plan for an event that is about to occur. R Tr re of	. interpret word problems and real fe problems into open sentences nd solve correctly . solve addition and subtraction of pen sentences . solve multiplication and division xercise on open sentences. Reciprocal of number: the reciprocal of 5 is 1/5 and eciprocal 1/6 is 5. Also the reciprocal of 2/3 is 3/2. Since 2/3 x 3/2 = 1 . solve quantitative reasoning on	Pupils in groups: - tell stories on open sentences and solve them. - interpret word problems and real life problems into open sentences and solve correctly e.g. the length of a rectangle is 6 times its width. If the perimeter is 182cm. Calculate its length. Let the width be x :.Length = 6cc x = 6cc Perimeter = 2 (L + W) 182cm = 2 (6x + x) = 2 (7x) 182cm = 14x Divide both sides by 14 i.e. \(^{14x}/_{14} = ^{182cm}/_{14} \) x = 13cm length = 6 x 13cm = 78xm - solve addition and subtraction of open sentences e.g. i. a + 13 = 23 ii. 2x - 5 = 11 Find the value of each letter i. a + 13 = 23 a = 23 - 13 = 10 ii. 2x - 5 = 11 2x = 11 + 5 2x = 16	Collaboration skills Critical thinking and	Cardboard p Chart of equ Flash cards sentences
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STREET TO TO ADD TRANSPORT OF THE PARTY OF T	90	x = 13cm length = 6 x 13cm = 78xm - solve addition and subtraction of open sentences e.g. i. a + 13 × 23 ii. 2x - 5 = 11 Find the value of each letter i. a + 13 = 23 a = 23 - 13 = 10 ii. 2x - 5 = 11 2x = 11 + 5 2x = 16		
STREET TO TENTO	gn	length = $6 \times 13cm = 78xm$ - solve addition and subtraction of open sentences e.g. i. $a + 13 \times 23$ ii. $2x - 5 = 11$ Find the value of each letter i. $a + 13 = 23$ $a = 23 - 13 = 10$ iii. $2x - 5 = 11$ $2x = 11 + 5$ $2x = 16$		
STREET TO TENTO		- solve addition and subtraction of open sentences e.g. i. $a + 13 = 23$ ii. $2x - 5 = 11$ Find the value of each letter i. $a + 13 = 23$ a = 23 - 13 = 10 ii. $2x - 5 = 11$ 2x = 11 + 5 2x = 16		
STRUCT TO TENDED TO THE STRUCTURE OF THE		sentences e.g. i. a + 13 × 23 ii. 2x - 5 = 11 Find the value of each letter i. a + 13 = 23 a = 23 - 13 = 10 ii. 2x - 5 = 11 2x = 11 + 5 2x = 16		
STRUCK TO TE ACT TRUCKED TO THE STRUCK TO TH	217	sentences e.g. i. a + 13 × 23 ii. 2x - 5 = 11 Find the value of each letter i. a + 13 = 23 a = 23 - 13 = 10 ii. 2x - 5 = 11 2x = 11 + 5 2x = 16		
STRUCT OF TEACH TRUSTED IN THE STRUCT OF TEACH T		ii. 2x - 5 = 11 Find the value of each letter i. a + 13 = 23 a = 23 - 13 = 10 ii. 2x - 5 = 11 2x = 11 + 5 2x = 16		
STREET TO TEXT THE STREET OF T		Find the value of each letter i. a + 13 = 23 a = 23 - 13 = 10 ii. 2x - 5 = 11 2x = 11 + 5 2x = 16		
PRESENTE TENTO REPERTED TO THE PRESENT OF THE PRESE		i. a + 13 = 23 a = 23 - 13 = 10 ii. 2x - 5 = 11 2x = 11 + 5 2x = 16		
The moral section of the section of		a = 23 - 13 = 10 ii. 2x - 5 = 11 2x = 11 + 5 2x = 16		
STREET TO TAKE I THERETO THE PROPERTY OF THE P		ii. 2x - 5 = 11 2x = 11 + 5 2x = 16		
emano de facilita instante ins		2x = 16		
Charles of values of the control of				
STREET TO TEND TO THE STREET OF THE STREET O		Divide both sides by the coefficient of y	1	
Charles equate to a second to the control of the co				
Professional Community (Community Community Co		(i.e.2) :. $2x/2 = 16/2$	Finance simple	I bearings
equality parts		x = 8		
and the same to the same to			a constructed 2 d	
CONTRACT TO A STATE OF THE STAT		-solve multiplication and division exercise on		
		open sentences. e.g. Toyin thinks of a number, she multiplies it with 5 and her	to purch .	
		result is 15. Find the number.	CEAN	
		Todat is 10.1 ind the named.	61 70	
Charles and the second		Let the number be 'a' multiply it by 5.	8. 50° - 18	
		a x 5 = 5a	10 mm	71
		:. 5a = 15 Multiply both sides by 1/s		
		Multiply both sides by $1/5$:. 5a x $1/5 = 15$ x $1/5$.	Design of the second	
		a = 3	(20)	
		Reciprocal of numbers		
		The reciprocal of 5 is 1/5 and reciprocal 1/5 is		
		5. Also the reciprocal of $^{2}/_{3}$ is $^{3}/_{2}$. Since $^{2}/_{3}$ x $^{3}/_{2}$ = 1		
		Quantitative Reasoning		
		i. 4 2 = (4 x 3) – (3 x 2)		
		$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$		
		ا ا		
		= 12 - 6 = 6		
		()		
		ii. $\int 5 4 = \left[5 \times 4 - 2 \times 4 \right]$		
	180 e 1 - 5	2 4		
		ر " ا		
pp ger 100 h		= 20 - 8 = 12		108
			Communication and	Cardboard pak Chart of pythat
6 Length and Pythagoras P	Pupils should be able to:	Pupils in small groups: - draw right angled triangle of any given	Personal development	theorem Mathematics le
Rules (a	a) lucituly the times sides of a right	draw right angled triangle of any given dimensions and use scissors to cut the	Creativity and imagination	Mathematics
	angled triangle	shane out		Pencil
Importance: -It helps to describe the (b	b) state the Pythagoras Rules	- identify the three sides of a right angled		Ruler





8 COMMERCIAL MATTER MONEY - Profit and Loss - Simple Interest - Discount and Commission - Rate and Tax - Share and Dividend Importance: -It gives an insight to plan well on profit making business It helps to be prudent in spending e.g. shares. - William Should be able to a. calculate the profit and loss on sales. Thus Profit = Profit Cost Price ★ 100% - Loss = Los ∮ Cost Price ★ 100% - Loss = Los ∮ Cost Price ★ 100% - State and Tax - Share and Dividend - Share and Dividend - Importance: - It gives an insight to plan well on profit making business It helps to be prudent in spending e.g. shares. - It helps to be prudent in spending e.g. shares. - It fon N1 he pays 5k. He will pay tax of 5k x N15.000 = N5/(mox) - Vupils in small groups: - transact sales with dummy money on these: - It profit and loss It profit and loss It gives an insight to plan rate, use copies of bills to calculate tax and rate - calculate the profit and loss on sales. Thus - ransact sales with dummy money on these: - Profit and loss It profit and loss It gives an insight to plan rate, use copies of bills to calculate tax and rate - calculate the profit and loss on sales. Thus - ransact sales with dummy money on these: - Profit and loss It will be able to a. calculate the profit and loss It in turns among the groups Stady different bills and exchange the bills in turns among the groups Stady different bills and exchange the bills in turns among the groups Calculate the discount and commission, tax, share, dividend respectively Calculate the profit and loss on sales. Thus - Calculate the profit and loss on sales. Thus - Calculate the profit and loss on sales. Thus - Calculate the profit and loss It helps to be prudent in spending e.g. shares. - It helps to be prudent in spending e.g. shares It helps to be prudent in spending e.g. shares It helps to be prudent in spending e.g. shares It helps to be prudent in spending e.g. shares It helps to be prudent in spending e.g. shares It helps	LEAR RESO Mathematics to Hart on market ndex Cardboard par Shop comer Home used ite ampty cartoon Dummy mone; Photocopies of servificate. Photocopies of on shares of a Water rate bill
Sales. Thus % Profit = Profl(cost Prick 100%) 1. Discount and Commission Rate and Tax Share and Dividend Importance: I-It gives an insight to plan well on profit making business. I-thelps to be prudent inspending e.g. shares. 1. The profit is profit = Profl(cost Prick 100%) 1. Amount = Principal + Interest 1. Discount and Commission and calculate the discount and commission. 1. discuss the meaning of discount and commission and calculate the discount and commission. 2. Simple interest. 3. Simple interest. 3. Discount and Commission. 3. Simple interest bills and exchange the bills in turns among the groups. 4. Share and Dividend 5. Share and Dividend 6. Discount and Commission. 6. Share and Dividend in the discount and commission and calculate the discount and commission. 8. Loss = Loss (count and Commission. 8. Loss = Loss (count and Commission. 9. Loss = L	Cardboard pap Shop corner Home used ite empty cartoon Dummy mone; Photocopies of certificate. Photocopies of a Water rate hill
Simple Interest Discount and Commission Rate and Tax Share and Dividend Importance: It gives an insight to plan well on profit making business. It helps to be prudent inspending e.g. shares. In the profit of the	Home used ite Imply cartoon Commy mone Photocopies of Certificate Photocopies of Shares of a Water rate hill
Commission Rate and Tax Share and Dividend Importance: It gives an insight to plan well on profit making business. It helps to be prudent in spending e.g. shares. It no N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company It company It company It company It discounts and accommission and calculate the discount and calculate tax and rate with the pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company It on N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company It on N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company It on N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company It on N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company It on N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company It on N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company It on N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company It on N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company tax of 5k x N15,000 = N5/100 X v. calculate shares and dividends of a company tax of 5k x N15,000 = N5/100 X v. calculate	Dummy money Photocopies of a Photocopies of a Photocopies of a Water rate hill
- Rate and Tax - Share and Dividend - Share and Dividend - Importance: - It gives an insight to plan well on profit making business It helps to be prudent in spending e.g. shares. - Lit helps to be prudent in spending e.g. shares. - Lit helps to be prudent in spending e.g. shares. - Lit helps to be prudent in spending e.g. shares. - Lit helps to be prudent in spending e.g. shares. - Lit helps to be prudent in spending e.g. shares. - Lit helps to be prudent in spending e.g. shares. - Lac you practices the activity given on discount, commission, tax, share, dividend rate, use copies of bills to calculate tax and rate iii. If on N1 he pays 5k. He will pay it ax of 5k x N15,000 = N5/100 x N15.000 x N1	Photocopies of certificate. Photocopies of a water rate hill
-It gives an insight to plan well on profit making businessIt helps to be prudent in spending e.g. shares. It helps to be prudent in spending e.g. shares. It helps to be prudent in spending e.g. shares. If helps to pay back to the for N15, 000 shall share e.g. shares. If helps to pay back to the bank? If helps to pay back to the back? If hel	on snares of a Water rate hill
- calculate tax and rate iii. If on N1 he pays 5k. He will pay tax of 5k x N15,000 = N5/100 X N15,000/1 = N750 v. calculate shares and dividends of a company - calculate phase price x 100% % Loss = Loss / Cost Price x 100%/1 % Loss = Loss / Cost Price x 100%/1 www - calculate phase sand dividends of a company - calculate phase price x 100%/1 % Loss = Loss / Cost Price x 100%/1 www - calculate purchased a radio for N15, 000 and sold it to Mr. Uche for N18, 000. Find his percentage profit - calculate purchased a radio for N15, 000 and sold it to Mr. Uche for N18, 000. Find his percentage profit - calculate purchased a radio for N15, 000 and sold it to Mr. Uche for N18, 000. Find his percentage profit - calculate and solve simple interest on business loans e.g. - Simple Interest = Principal x Time x PA/B - v. Mrs. Awoyade borrowed N120, 000 from a bank for 3 years at an annual interest rate of 15% per annum. Find the interest rate of 15% per annum. Find the interest rate of 15% per annum. Find the interest on the loan and how much will she pay back to the bank? - Principal = N120, 000 Time = 3 years Rate = 15% - 1 = PXTXR/100 - N120,000 x x x x x x x x x x x x x x x x x	Floctrinity & III
tax of 5k x Ñ15,000 = №5/100 X N15,000 x calculate shares and dividends of a company Www.decompany % Loss = Loss / Cost Price X 100 1/15, 000 and sold it to Mr. Uche for N18, 000. Find his percentage profit Cost price = N15, 000	Electricity bill. Photocopy of ponthly salary.
v. calculate shares and dividends of a company e.g. Mr. Kunle purchased a radio for N15, 000 and sold it to Mr. Uche for N18, 000. Find his percentage profit Cost price = N15, 000 Selling Price = N18, 000 Profit = Selling Price - Cost Price N18, 000 - N15, 000 - N3, 000 ∴ %Profit = Profit cost Price x 100%, %Profit = N000 / 15000 x 100%, 1 = 20% -calculate and solve simple interest on business loans e.g. Simple Interest = Principal x Time x 1746 v. Mrs. Awoyade borrowed N120, 000 from a bank for 3 years at an annual interest rate of 15% per annum. Find the interest on the loan and how much will she pay back to the bank? Principal = N120, 000 Time = 3 years Rate = 15% ∴ I = PXTX R/100 = N120,000 x 3 x 15/100 = N154, 000 vi. Amount = Principal + Interest	ww.study.com
Cost price = N15, 000 Selling Price = N18, 000 Profit = Selling Price - Cost Price N18, 000 - N15, 000® N3, 000 ∴ %Profit = Profit/Cost Price x 100%/1 %Profit = Principal x 100%/1 = 20% -calculate and solve simple interest on business loans e.g. Simple Interest = Principal x Time x 1746 v. Mrs. Awoyade borrowed N120, 000 from a bank for 3 years at an annual interest rate of 15% per annum. Find the interest on the loan and how much will she pay back to the bank? Principal = N120, 000 Time = 3 years Rate = 15% ∴ I = PXTX R/100 = N120,000 X 3 X 15/100 = N120,000 X 3 X 15/100 = N54, 000 vi. Amount = Principal + Interest	
Selling Price = N18, 000 Profit = Selling Price - Cost Price N18, 000 - N15, 000= N3, 000 :: %Profit = Profit/cost*Price x 100%/1 %Profit = N3000/15000 x 100%/1 = 20% -calculate and solve simple interest on business loans e.g. Simple Interest = Principal x Time x \$\mathbb{F}_{\text{tild}}\text{8} v. Mrs. Awoyade borrowed N120, 000 from a bank for 3 years at an annual interest rate of 15% per annum. Find the interest on the loan and how much will she pay back to the bank? Principal = N120, 000 Time = 3 years Rate = 15% : = P x x R/100 = N120,000 x x x x x x x x x x x x x x x x x	
N18, 000 – N15, 000≈ N3, 000 ∴ %Profit = Profit/Cost Price X 100%/₁ %Profit = N3000/₁5000 X 100%/₁ = 20% -calculate and solve simple interest on business loans e.g. Simple Interest = Principal x Time x ₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹	
business loans e.g. Simple Interest = Principal x Time x PANS v. Mrs. Awoyade borrowed N120, 000 from a bank for 3 years at an annual interest rate of 15% per annum. Find the interest on the loan and how much will she pay back to the bank? Principal = N120, 000 Time = 3 years Rate = 15% I = PXTXR/100 = M120,000 X 3 X 15/100 = N54, 000 vi. Amount = Principal + Interest	
v. Mrs. Awoyade borrowed N120, 000 from a bank for 3 years at an annual interest rate of 15% per annum. Find the interest on the loan and how much will she pay back to the bank? Principal = N120, 000 Time = 3 years Rate = 15% = PXTXR/100 = N120,000 x 3 x 15/100 = N54, 000 vi. Amount = Principal + Interest	
from a bank for 3 years at an annual interest rate of 15% per annum. Find the interest on the loan and how much will she pay back to the bank? Principal = N120, 000 Time = 3 years Rate = 15% I = PXTX R/100 = M120.000X 3 X 15/100 = N54, 000 vi. Amount = Principal + Interest	
Time = 3 years Rate = 15% ∴ I = PXTXR/100 = №120,000 x 3 x 15/100 = N54, 000 vi. Amount = Principal + Interest	
∴ = PXTXR/ ₁₀₀ = №120,000 x 3 x 15/ ₁₀₀ = №54, 000 vi. Amount = Principal + Interest	
vi. Amount = Principal + Interest	
= N124,000 = N174,000 She will pay back = N174,000	
-discuss the meaning of discount and commission and calculate the discount and commission on sales of commodities e.g. A supermarket gives a discount of 5% on goods purchase during a festivity. How much	
will a man pay for a good of N7, 000? % Discount = N7000 x 5/100 = N350 He will pay = N7000 – N350	
= N6, 650 -explain the meaning of tax and rate, use copies of bills to calculate tax and rate e.g. A man's annual income is N25,000. If	
N10,000 is tax free of his income. a. Calculate how much of his income is taxable.	
b If he pays tax at the rate of 5k per naira, how much has he to pay? His income = N25, 000 His tax free = N10, 000	
Tay able income = N25,000 - N10,000 = N15,000	



NKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	The state of the s	MATHEMATICS
gä				EMBEDDED CORE SKILLS	LEARNING RESOURCES
		न वीत्साकः र विद्	x N15,000 = N5/100 x N15,000/1 = N750 -calculate shares and dividend of a company e.g. A woman bought 300 shares in a Company. How much dividend should she receive if dividends are paid at N50 per share? On a share, a dividend of N50 is paid. On 300 shares, a dividend of N50 x 300 will be		NESSON-E-
9	Perimeters and Areas of Plane Shapes Regular plane shapes e.g. rectangle, square, trapezium, parallelogram, circle etc. triangle -Properties of each plane shape -Area and perimeter of irregular shapes -Solve real life problems. Importance:	Pupils should be able to: a. discuss the properties of the plane shapes. b. discuss the meaning and calculate the perimeter of plane shapes i.e. Perimeter of a rectangle = 2 (Length + Breadth)	paid = N50 x 300 = N15,000 -Pupils as individuals use scissors to cut different plane shapes from cardboard, carpet, paper, use ruler or tape measure to measure the dimensions (sides) and then calculate the perimeter by adding all the sides of each shape. -Pupils in small groups discuss the properties of the plane shapes. -Pupils in pair discuss the meaning and calculate the perimeter of plane shapes i.e. Perimeter of a rectangle = 2 (Length + Breadth)	Creativity and imagination	Carpet Cardboard paper Scissors Pencil Ruler www.sciencedirect.com www.youtube.com/shapes
	-Surveyors use it to measure the dimensions of land in plots, acres, hectres etc.			, - <u>J</u>	was - Fill-graph
	piots, acres, nectres etc.		e.g. a. A rectangle is of length 10cm and breadth of 6cm. Find its perimeter 10 cm 6 cm	and the second	
			Perimeter = 2 (l _e + B) = 2 (10 + 6) cm = 2 x 16cm = 32cm - Perimeter of a square = 4 x length		1
		(M) (2)	A square has a length of 10cm. what is its perimeter? Perimeter = 4 x length = 4 x 10cm = 40cm - Perimeter of a trapezium equals to the sum		
manifestivation of the colorest constitution		100.50	of distance round it. E.g. find the perimeter of the figure below.		
And the second s		, 1, " - 1 ¹ , 78	4cm 14cm		
		837 B	Perimeter = 12cm + 5cm + 14cm +4cm = 35cm -Find the perimeter of a circle whose radius		
			is 7cm. Perimeter of a circle = 2 r 2 x ²² / ₇ x ^{7cm} / ₁ = 2 x 22cm = 44cm		
			The perimeter of a circle can also be calculated using diameter i.e. Circumference = d		
			-calculate the area of a rectangle, square, trapezium etc a. area of a rectangle = Length x Breadth e.g.		1 pr 10 pr
			7cm a. 4cm		
			Area = 7cm x 4cm = 28cm ²	.1, 1 -	

WKS	TOPICS	LEARNING OBJECTIVES	LEARNING AC	TIVITIES	EMBEDDED CO SKILLS	EAST
		2 1	b. 5cm		Ta up	RESOURC
			C			
	,7%, s		Area of a square = Leng 5cm x 5cm = 25cm ²	th x Length =	ε - ε	
			Total Tr			
			c. 4cm			
	200 0		3cm	35.00	wise with made in the	278
	formation 1 in the second seco		Area of a trapezium		X = 1 av secila	en .
	1 per 3 W pr		= ½ x (a + b) x height = ½ x (4 + 10)cm x 3cm		20 m 1 m 2 m 2	
	C. Britania C. C.		= ½ x 14m/ ₁ x 3m/ ₁ = 7cm x 3cm = 21cm ²		1 (mys.45)	
	BESTELLE THE		d. Area of a circle = r2		Mosell -	
		-	What is the area of circle who: 7cm?	se radius is		
			Area = $r^2 = 22/7 \times 7 \times 7 \text{ cm}^2$	= 154cm ²		
		to the state of	- find the area and perimeter of	of irregular		0
			shape e.g. What is the area at this figure?	nd perimeter of		1 1 201
		ins neith so	7cm	**		
		Param	A		-	
			12014			
		ma B	В	9cm		
			d a mark			
			2cm			
			-			
		T 8 25 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Area = firstly, detach the smal shapes from irregular shape, of area and add their areas toge	ralculate each		
		mu that so a some	Area of A = 7cm x 2cm = 14cr	m²		
		मा करा खंद सर्वा ।	Area of B = 9cm x 2cm = 18cr :. Area of the shape = 14cm ²	n² + 18cm² =		
			32cm ² Its perimeter =	Todii-		
		مراجع والمنافع والمنا	P = 7cm + 2cm + 25cm + 9cm	n + 2cm + 9cm		
		= 10.0	+ 2.5cm + 2cm = 36cm			
			solve real life problems on per area of regular and irregular s	rimeters and hapes.	,	
		As and as the Asia	Quantitative Reasonin	9		
			9cm 26cm 4cm	2.50cm 0.00cm		
10	Weight -Conversion of units.	Pupils should be able to: a. express the same weights in	Pupils in small groups:		Communication and	Samples of differen
	-Addition, subtraction, multiplication and division	different units e.g. gram, kilogram	convert weight to tonnes, gra kilograms	ammes and	Collaboration	objects Weighing scale
	on weight.	tonneeg. 1000g = 1kg 1000kg = 1tonne	- express the same water	1.8	Critical thinking and Problem solving	Short New York
	-Quantitative Reasoning	1000000g = 1 tonne i. How many kilograms are in	express the same weights in e.g. gram, kilogram, tonneeg.	1000g = 1kg		Chart on weight ophyerson
		8500g? 1000g = 1kg	1000000 = 1 toppe			www.madesta.com
		8500g = 8500g/1000 = 8.5kg	1. How many kilograms are in	8500g?		14.14
	Importance:	b. solve real life problems on weight	8500g = 8500g/1000 = 8.5kg			
	Meat, chicken, turkey sellers use weight to determine the	c. solve quantitative reasoning	-solve real life problems on we	eight e.g. e		
	prices of their products	exercises related to weight	basket weights 3kg 350g and drops from the basket, what w	1ka 120a		



MATHEMATICS TOPICS **LEARNING OBJECTIVES** WKS **LEARNING ACTIVITIES** LEARNING **EMBEDDED CORE** RESOURCES **SKILLS** 3kg 350g 1kg 420g 1kg 930g **Quantitative Reasoning** 4kg 315g 2kg 750g 7kg065g 10.25kg 2059 5 Exercises from class work Communication and Pupils in small groups practice 2nd term's Pupils should be able to: Revision and homework collaboration i. revise topics in 2nd term topics together. Mathematics textbooks Pupils in groups construct a rectangular board ruler with plywood. Leadership and personal PROJECT development **EXAMINATION** EXAMINATION **EXAMINATION** EXAMINATION EXAMINATION **EXAMINATION EXAMINATION EXAMINATION** 13 EXAMINATION

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Term 3 Primary 6

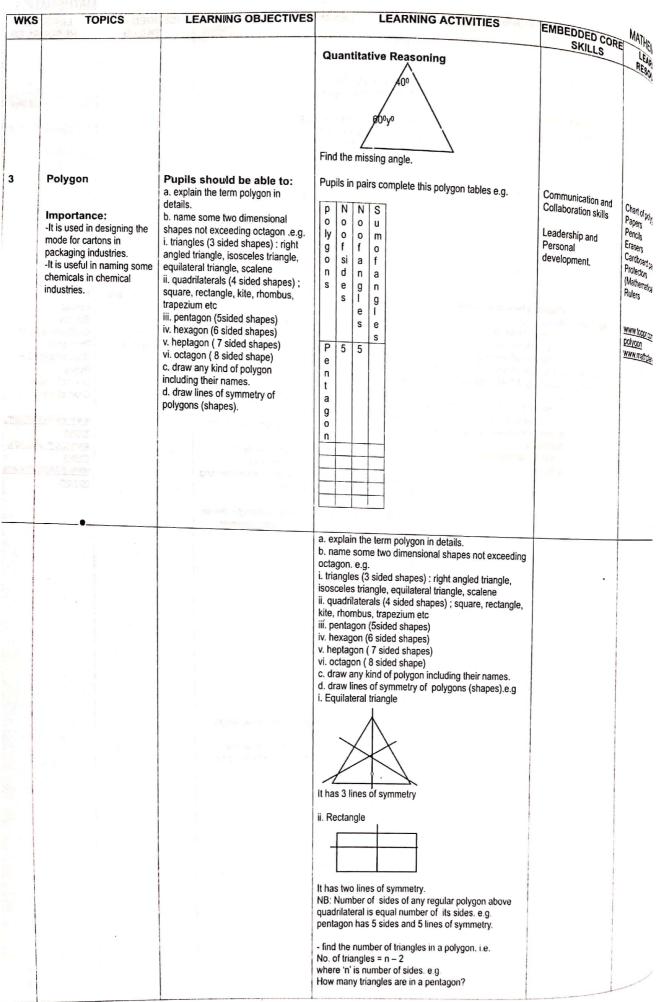
THE

LAGOS STATE MINISTRY OF EDUCATION UNIFIED SCHEMES OF WORK FOR PRIMARY SCHOOLS

(MATHEMATICS FOR PRIMARY SCHOOL) PRIMARY SIX THIRD TERM

NKS	TOPICS	LEARNING OBJECTIVES	parts come or fall seen 1	EMBEDDED CORE SKILLS	I LF
	Revision of 2nd term	Pupils should be able to:	Pupils in small groups revise 1st and 2nd terms'	Critical thinking and	RES Class Work
	topics.	i. revise 2nd term's topics on ratio,	topics and home-work.	problem solving	- Clas
	Emphasis on,	proportion, money and plane		Communication and	Work
	i. ratio and proportion	shapes.	Pupils as individuals:	Collaboration	- 2nd
	ii. money		i. revise 2nd term's topics on ratio, proportion, money	Leadership and	exa exa
	iii. plane shapes.	ii. participate in resumption test.	and plane shapes.	personal development	
			ii. participate in resumption test.	Skills	- Mat
	Number Bases:	Pupils should be able to:	Pupils in small groups:	Communication and	ICX
	i. Binary Numbers	i. write numbers in binary numbers	- share themselves into different units of numbers,	Collaboration	-
	ii. Denary Numbers	ii. convert denary (base 10) to binary	e.g. a group with 11 members will be regrouped into 4	Skills.	- (
	iii. Quantitative Reasoning.	(base 2)	which gives 2 remainder 3 this means 11 ₁₀ have been	Critical thinking	- 1
		iii. convert denary to other number	converted into base four.	Critical thinking and	
		bases and vice versa iv. add and subtract numbers bases	This exercise continues with other groups.	problem solving skills.	- (
	IMPORTANCE:	from binary to denary.	-write numbers in binary numbers		ı
town 3	-It is used in computing,	v. multiply and divide number bases	-convert denary (base 10) to binary (base 2)	ellqu9	l
	calculating in computer.	from binary to denary	-convert denary to other number bases and vice versa	33/191	
	stoot was contisted forces	I for binary to denary	- add and subtract of numbers bases from binary to		WWW.pur
	- They are also used in	to may a seed a	denary.		numbba www.nric
	assigning internet protocol	TA MANAGEMENT	-multiply and divide number bases from binary to		www.you
	or IPs. 121112AX	FAZIMINA	denary MAGE	EXAMI	tch
	1 1 10000000000000000000000000000000000		Examples:		
			i. binary numbers comprising of only 2 different digits		
			i.e 0 and 1.		
			ii. convert base 10 to base 2. e.g convert 15 ₁₀ to base		
			2.		
	9		2 15 ₁₀		
			2 7 R 1 2 3 R 1		
	= "1"		2 1R1		
			0R1		
			1 11		
			:. 15 ₁₀ =1111 ₂		
			iii. convert denary to other base e.g convert 21 ₁₀ to		
			base 5.		
			5 2110		
			5 4 R 1		
			5 0 R 4		
			:. 2110 = 41s		
			iv. convert binary to denary e. g 10112		
			3210		
			$1011_2 = 1 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 1 \times 2^0$		
			= 1 x 8 + 0 x 4 + 1 x 2 + 1 x 1		
			= 8 + 0 + 2 + 1 = 11 ₁₀		
			iv. convert 324 to base 10.		
	A second	2 42	10	10.7	
			$32_4 = 3 \times 4^1 + 2 \times 4^0$	_	
	77		= 3 x 4 + 2 x 1		
			= 12 + 2 = 14 ₁₀		
			v. add and subtract number bases. e.g		
		× - 1	v, add and subtract number bases, e.g a. 1011 ₂		
			a. 10112 +101 ₂		
		130 A	100002		
1		E # "			
1		142	b. 734 ₈		
			- <u>305</u> 8		
*	Stern Commission		<u>427</u> 8		
			- multiply and divide number bases e. g		
	1 2 2 2 2		- multiply and divide number bases e. 9		
			x 23 ₆		
-	- NE		13406		_
	1	1			

TOPICS 0301 38	LEARNING OBJECTIVES	LEARNING ACTIVITIES	MBEDDED CORE SKILLS	LEARNING RESOURCES
SARE SARE	pain	1024 ₆	7	
		- divive 320 ₄ by 10 ₄		
	1	firstly convert to base 10.		
	7	320 ₄ = 3 x 4 ² + 2 x 4 ¹ + 0 x 4 ⁰ = 3 x 16 + 2 x 4 + 0 x 1		
*		$= 48 + 8 + 0 = 56_{10}$ $10_4 = 1 \times 4^1 + 0 \times 4^0$ $= 4 + 0 = 4_{10}$		nosyw ^q
The second of the second		:. 56 ₁₀ - 4 ₁₀ = 14 ₁₀ constant of older and bluerds. Then convert 14 ₁₀ to base 4.		A state of
egeneral production of the second		:. = 324		rationers of
a market		Quantitative Reasoning + 4 5 6 0		e governer
		3 0 1 2 3 5 2 3 4 5	Bandy Market	ni 2002 Mees
Angles Angle, Lines and Bearings. Importance: -It is used for architectural design in building houses or construction companies.	Pupils should be able to: a. explain the meaning of angle in details and give some samples in the classroom environment. b. mention different types of angles c. measure angles in degrees using clocks e.g. 30°,45°, 60°, 90°, 120°, etc d. explain the term line and pinpoint some lines in the classroom. e. measure different types of lines accurately f. identify various types of angles and lines.	Pupils in small groups: - sketch two different lines meeting at a point on a paper or cardboard and use protractor to measure the degrees of the angles formed at the intersection of the two lines explain the meaning of angle in details and give some samples in the classroom environments mention different types of angles	Communication and Collaboration Creativity and imagination skills	Papers Pencils Erasers Cardboard papers Protectors (Mathematical Set) Rulers Chart of angles Chart of line www.mathsisfun.cor angles www.geom.uluo.edu angles www.onlinemathlear ng.com



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WKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CORE	MATHEMATICS LEARNING RESOURCES
		and a state			
		- 1 Protect of the control	2	Certain C	
			A pentagon has 5 sides, therefore its number of angles is $n-2=5-2=3$.	in a second	
			- find the sum of angles in each polygon, i.e. sum of angles = (n - 2)180 e.g. sum of angles in a pentagon = (5 – 2)180 (3)180 = 3 x 180 = 540.		
		research, to the control of the cont	g. solve quantitative reasoning exercises on polygon. e.g.		
	Time, Distance and Average speed. -Time - Distance -Average speed -Real life problems	Pupils should be able to: i. calculate the distance, time and average speed of objects or persons. e.g. a. Distance = Average speed x Time b. Time = Distance / Average speed	Pupils in pairs: - run round the school field and each person's time spend is recorded to calculate average speed. i. calculate the distance, time and average speed of objects or persons. e.g. a. Distance = Average speed x Time	Citizenship Leadership and personal develop skills	www.toppr.com.guide s.average www.study.com.spee d
- 40	-Quantitative Reasoning	c. Average speed = Distance / Time. NB: Distance, Average speed and time are measured in Km or m; Km/hr or m/s and Hr or seconds.	b. Time = Distance / Average speed c. Average speed = Distance / Time. NB: Distance, Average speed and time are measured in Km or m; Km/hr or m/s and Hr or seconds.	100 T	in semisorin er iki erilekt
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Examples: i. An aeroplane travelled to London at an average speed of 825km/hr for 4hr, what distance was covered by the aeroplane?	Desir	Total D
	Importance It helps the motorists determine the distance a vehicle covers over a period of time.		Given: Speed = 825km/hr Time = 4hr Distance = ?	72.	
	This can be noticed on the dash board of a car.	- company to the	Therefore you are to find the distance; D = S x T = 825km/hr x 4hr ≈ 3300km ii. A man walks a distance of 42km in 6hr, calculate		A Company
			the average speed. Given: Distance = 42km Time = 6hr S = D/T Speed = 42km/6hr		
			= 7km/hr Quantitative Reasoning		
			40km 2hr 20km		
	Cube Cuboid Cylinder Cone etc Quantitative Reasoning	a. calculate the volume of 3 dimensional shape such as cube, cuboid, cylinder, prism etc b. state the properties of solid shapes.	Pupils in small groups: - measure the surface cover of their tables, benches, chair etc in their classroom by using ruler or tape measure to measure the length, breadth and height, then, multiply the outcomes ie Length x Breadth x Height.	Critical thinking and problem solving skill Communication and Collaboration	Classrooms Type rule Pencils Cardboard paper Chart of volume and capacity formulae
And the second s		c. calculate the capacity of liquid in litres. d. express capacity in litre and in centilitres cube e. explain the difference between volume and capacity. e.g. volume is how much space an object takes up	- calculate the volume of 3 dimensional shape such as cube, cuboid, cylinder, prism etc - state the properties of solid shapes - calculate the capacity of liquid in litres express capacity in litres and in centilitres cube - explain the difference between volume and capacity. e g volume is how much space an object takes up	Citizenship skill.	Teacher's tables Pupils' tables Www.m.youtube.com, math www.askanydifferenc e.co

NY PAR	PENELSTAFF.	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CO SKILLS	RE
WKS	TOPICS	2 August 1	the formulae of volume of solid shapes.	OWILLS	
St =	Importance -It is useful in bottling companies e.g. water, soft drinks, juice, malt companies	solid shapes	e.g find the volume of the diagrams below,		F
	- It is also useful in Fishery, Pharmacy, Catering etc.	· Marinia of Samuel	Volume of a cube = length x length x length = L ³ = 10cm x 10cm x 10cm = 1000cm ³		
1	Penny lyden		II. 7cm		
	March and All Ma	rigini i Ganza de al de	Volume of a cylinder = r ² H = 22/7 x 5cm x 5cm x 7cm = 550cm ³ .	*	
	200 - 200 L		Quantitative Reasoning † † † † † 5kg + + 10kg = 20kg	5 4 2	
5	Everyday Statistics: -Population represented on pictograms, bar chart and pie-chartMeasures of Central Tendency:	Pupils should be able to: find the mode from a set of numbers identify the median from a given set of numbers calculate mean of a given set of numbers solve problems on chances of events. solve quantitative aptitude problems relating to statistics and probability.	Pupils as a class do a role play, nine pupils are lined up in front of the classroom. Their heights are studied by the rest of the class, then line up in descending order (tallest to the shortest), the most common height is the mode, the height at the middle of the pupils lined up is the median and the total numbers of the pupils' heights divided by the total number of pupils standing which is the mean Pupils in groups arrange given number cards orderly, then select the numbers into category of sizes. The pupils identify and calculate the mode, median and the mean of the numbers given. QUANTITATIVE REASONING Mean DATA Mode Median Find the mean, median and mode of the following questions 12, 14, 17, 20, 35, 17, 17	Critical thinking and problem solving Communication and collaboration Student leadership and personal development	AUDIO RESOL Cardoo number Data ch Site link into sile ink
	Midlerm Break	Midterm Break Pupils should be able to:	Midterm Break Pupil as individual revise exercises from class and	Midterm Break	Midlerm
	Revision on whole		home work.		-
В	numbers.	exercises on whole numbers up to billions.	Pupils in small groups solve past entrance examination questions.		
9	Revision on past questions.	i. solve exercises on placement test pack. ii. model entrance test iii. solve exercises on related entrance examinations questions.	examination diagrams.		