

BASIC TECHNOLOGY

JUNIOR SECONDARY SCHOOL (JSS 1)

FIRST TERM

WEEK	TOPICS/CONTENTS
1.	UNDERSTANDING TECHNOLOGY I. Technology related Professions II. Importance of Technology
2.	SAFETY GUIDELINES I. Safety Guidelines for Pedestrians II. Safety Guidelines for Cyclists/Motorcyclists III. Safety Guidelines for Motorists
3.	WORKSHOP SAFETY I I. Causes of Workshop Accidents II. Types of Workshop Accidents III. Prevention of Workshop Accidents
4.	WORKSHOP SAFETY II I. Safety Rules and Regulations in Workshop II. Safety Devices

5. **PROPERTIES OF MATERIALS – WOOD I**
 - I. Identification
 - II. Classification

6. **WOOD II**
 - I. Properties
 - II. Uses

7. **PROPERTIES OF MATERIALS – METALS I**
 - I. Identification by their Physical Properties
 - II. Types
 - III. Alloys

8. **METALS II**
 - I. Classification
 - II. Forms of Metal
 - III. Uses

9. **PROPERTIES OF MATERIALS (CERAMICS AND GLASSES)**
 - I. Identification
 - II. Types
 - III. Properties of Ceramics and Glasses
 - IV. Uses

10. RUBBER AND PLASTICS

- I. Types
- II. Identification
- III. Properties
- IV. Uses

11. – 13. REVISION AND EXAMINATION

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SECOND TERM

WEEK	TOPICS/CONTENTS
1.	REVISION OF LAST TERM'S WORK
2.	TYPES OF BUILDING AND BUILDING MATERIALS I I. Types of Building II. Types of Building Materials
3.	BUILDING MATERIALS II Uses
4.	DRAWING INSTRUMENTS AND MATERIALS I I. Types II. Uses
5.	DRAWING INSTRUMENTS AND MATERIALS II Care

6. BOARD PRACTICE I

- I. Setting Drawing Paper on the Drawing Board
- II. Sharpening Pencil to Conical Point and Knife Edge
- III. Using Drawing Instruments to Draw Boarder Lines, Parallel Lines, Vertical Lines, Title Block, etc.

7. BOARD PRACTICE II

Lettering and Numerals

8. FREEHAND SKETCHING I

- I. Definition
- II. Techniques of Drawing Lines, Curves, Circles and Irregular Shapes

9. FREEHAND SKETCHING II

Sketching of Simple Workshop Hand Tools – Building, Woodwork, Metalwork, Hand Tools

10. WORK BENCH FITTINGS AND APPLIANCES

- I. List the Work Bench Fittings and Appliances
- II. Sketch the Work Bench Fittings and Appliances.
- III. Uses
- IV. Measuring Tools
- V. Marking out Tools

11. – 12. REVISION AND EXAMINATION

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THIRD TERM

WEEK	TOPICS/CONTENTS
1.	REVISION OF 2ND TERM'S WORK
2.	WOODWORK HAND TOOLS I I. Boring Tools – Identify, List and State Uses II. Cutting Tools – Identify, List and State Uses
3.	WOODWORK HANDTOOLS II I. Driving and Impelling Tools – Identify, List and State Uses II. Holding Devices – Identify, List and State Uses III. Care and Maintenance
4.	METALWORK HANDTOOLS I I. Measuring Tools – Identify, List and State Uses II. Marking Out Tools – Identify, List and State Uses III. Holding Devices – Identify, List and State Uses

5. METALWORK HANDTOOLS II

- I. Driving Tools – Identify, List and State Uses
- II. Cutting Tools/Boring Tools – Identify, List and State Uses
- III. Care and Maintenance

6. MAINTENANCE OF TOOLS AND MACHINES

- I. Definition of Maintenance
- II. Types and Application
- III. Importance

7. BASIC ELECTRICITY I

- I. Definition of Current
- II. Types of Current
- III. Definition of Electric Circuit and Its Components and Symbols

8. BASIC ELECTRICITY II

- I. Measuring Instruments
- II. Definition of Transformer Stabilizer
- III. Appliances and Accessories

9. BASIC ELECTRICITY III

Simple Electrical Calculation

10. BASIC ELECTRICITY IV

- I. Electrical Circuit Connections
- II. Simple Electrical Circuit Diagram

11. – 12. REVISION AND EXAMINATION