## BASIC SCIENCE

**JUNIOR SECONDARY SCHOOL (JSS 2)**

**FIRST TERM**

<table>
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<tr>
<th>WEEK</th>
<th>TOPICS/CONTENTS</th>
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<tr>
<td>1.</td>
<td><strong>LIVING THINGS - HABITAT</strong></td>
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<tr>
<td></td>
<td>I. Definition of Habitat</td>
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<td>II. Types of Habitat, e.g. Aquatic, Terrestrial and Arboreal (Water, Land and Air) and Examples.</td>
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<td>2.</td>
<td><strong>ADAPTATION OF LIVING THINGS TO THEIR HABITAT</strong></td>
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<td>I. Various Adaptive</td>
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<td>II. Features of Living Things in their Habitat</td>
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<td>3.</td>
<td><strong>RELATIONSHIP BETWEEN ORGANISMS IN THE SAME HABITAT</strong></td>
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<td>Characteristics of Organisms in the same Habitat and what they have in Common</td>
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<td>4.</td>
<td><strong>UNIQUENESS OF HUMAN BEINGS</strong></td>
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<td>I. Reasoning</td>
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<td>II. Problem Solving</td>
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<td>III. Inquisitiveness</td>
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<td>IV. Observation</td>
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<td>V. Measurement</td>
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<td>VI. Inference</td>
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<td>5.</td>
<td><strong>MEASUREMENT OF GROWTH AND DEVELOPMENTAL CHANGES</strong></td>
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<td>Growth changes in Height, Weight and Size.</td>
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6. **HUMAN DEVELOPMENT I**

Developmental Changes:

I. Infancy
II. Adolescents
III. Adulthood
IV. Characteristics Features of Stages of Development

7. – 8. **HUMAN DEVELOPMENT II**

I. Classification of Growth and Developmental changes as Temporary/Permanent
II. Factors that affect Growth and Development

9. **BODY IMAGE I**

I. Meaning of Body Image
II. Physical Features, Size, Height, Race, Ethnicity, Color of Skin, Eyes and Hair

10. **BODY IMAGE II**

Pubertal and Body Image:

I. Effect of Pubertal changes on Body Image and Behavior
II. Misconceptions about Beauty as presented in the Media
III. Individual Uniqueness

11. | 12. **REVISION AND EXAMINATION**
BASIC SCIENCE

JUNIOR SECONDARY SCHOOL (JSS 2)

SECOND TERM

WEEK | TOPICS/CONTENTS

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1. | REVISION OF LAST TERM’S WORK
   | Work, Energy and Power
   | I. Meaning of Work, Energy and Power
   | II. Concept of Work, Energy and Power
   | III. Forms of Energy – Heat, Light, Kinetic, Potential, etc.

2. | POTENTIAL AND KINETIC ENERGY
   | I. Meaning of Potential and Kinetic Energy
   | II. Calculate Kinetic and Potential Energy

3. | CALCULATION INVOLVING WORK DONE

4. | ENERGY TRANSFER WHEN WORK IS DONE

5. | FAMILY LIFE EDUCATION I
   | I. Communication Techniques
   | II. Importance of Honest Communication about Pubertal concerns to Responsible Parents

6. | FAMILY LIFE EDUCATION II
I. Life Span Continuum
II. Expressions of Feeling Desires and Fantasies from Birth to Death
III. Factors that Influence Individual Sense of Self – Worth (Bodyimage)

7. | 8. KINETIC THEORY
   The Assumptions of the Kinetic Theory

9. EXPLANATION OF SOME PHENOMENA USING KINETIC THEORY
   Explain the Molecular Structure of Solids, Liquids and Gases using the Kinetic Theory

10. BOILING AND EVAPORATION
    I. Explanation of Boiling and Evaporation using Kinetic Theory
    II. Factors that affect Evaporation

11.– 12. REVISION AND EXAMINATION
## BASIC SCIENCE

### JUNIOR SECONDARY SCHOOL (JSS 3)

#### THIRD TERM

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<th>WEEK</th>
<th>TOPICS/CONTENTS</th>
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<tbody>
<tr>
<td>1.</td>
<td>REVISION</td>
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| 2.   | THERMAL ENERGY – I  
Heat Flow  
THERMAL ENERGY – II  
Heat Transfer – Conduction, Convection and Radiation |
| 3.   | REPRODUCTIVE HEALTH  
I. Genetic Counseling  
II. Breast Feeding and Its Advantages  
III. Myths about Breast feeding |
| 4.   | ABSTINENCE  
I. Meaning of Abstinence  
II. Types of Abstinence - Life Long, Delayed, Periodic Abstinence  
III. Skills and Behavior that Promotes Abstinence  
IV. Reasons why Young People must Abstain from Pre – Marital Sex  
V. Reasons why Young People engage in Pre – Marital Sex  
VI. Facts and Myths about Sexual Abstinence |
| 5.   | CHEMICALS |

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5
I. Meaning of Chemicals

II. Classes of Chemicals
   a. Based on Use - Pharmaceutical/Cosmetics, Nuclear, Agrochemicals, Industrial and Laboratory
   b. Based on Hazardous Nature – Highly Hazardous and Toxic, Moderately Hazardous and Toxic, Non Hazardous and Toxic

6. CHEMICALS - SAFETY MEASURES

Safety Measures when Using Chemicals

I. Adhere to the Manufacturer’s Safety Instructions

II. Follow Safety Guidelines for Chemical Storage and Handling

III. Observe and Adhere to Safety Signs and Instructions on Chemical Packages

IV. Ensure Proper Labeling and Storage of Chemicals

7. | 8. DRUG ABUSE

I. Meaning of Drug and Drug Abuse

II. Methods of Drug Use, e.g. Inhaling, Injection, Smoke, etc.

III. Common ways of Misusing Drugs

IV. Social Risks Factors in Drug Abuse, e.g. Broken Home, Peer Influence

IV. Desperate move to get More Drugs

9. CRUDE OIL AND PETROCHEMICALS I

I. Meaning of Crude Oil and Petrochemicals

II. Refining of Crude Oil

10. CRUDE OIL AND PETROCHEMICALS II

I. Uses of Crude Oil and Petrochemicals
II. Importance of Crude Oil and Petrochemicals

11. | 12. REVISION AND EXAMINATION