# SCHEME OF WORK FOR S.1 PHYSICS

Term: One  
Class: Senior One (S.1)  
Subject: Physics  
Duration: 12 Weeks  
Lessons per Week: 4 Periods (40 minutes each)  
Topics: Introduction to Physics and Measurement  
Competence-Based Approach

## GENERAL OBJECTIVES

• Appreciate the importance of physics in everyday life.

• Demonstrate an understanding of fundamental physics concepts.

• Develop skills in making accurate measurements using appropriate instruments.

• Apply scientific methods in solving simple problems related to measurement.

## WEEKLY SCHEME OF WORK

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| Week | Lesson | Content | Competencies to be Developed | Teaching and Learning Activities | Assessment Methods | Resources |
| 1 | 1 | Introduction to Physics: Meaning, Importance, and Branches | Define physics and describe its importance in daily life | Class discussion on the role of physics in society | Oral questioning | Textbooks, charts |
| 1 | 2 | Careers related to physics | Identify careers that require knowledge of physics | Brainstorming and group discussion | Quiz on physics-related careers | Posters, videos |
| 1 | 3 | The scientific method | Explain steps in scientific investigation | Conduct simple experiments demonstrating observation, hypothesis, and conclusion | Practical report writing | Laboratory materials |
| 1 | 4 | Laboratory rules and safety measures | Identify and apply safety rules in a laboratory | Role-playing and class discussion on safety procedures | Observation of learners during practicals | Safety posters |
| 2 | 5 | Physics laboratory and common apparatus | Identify and describe common physics apparatus | Observation of apparatus and discussion | Labelling of apparatus in groups | Real laboratory apparatus |
| 2 | 6 | Precautions when using physics apparatus | Explain care and handling of laboratory equipment | Practical demonstration of proper handling techniques | Practical assessment | Laboratory apparatus |
| 2 | 7 | SI Units: Introduction | Define SI units and their importance | Group discussion on common units of measurement | Oral questioning | Charts, textbooks |
| 2 | 8 | Base and derived quantities | Differentiate between base and derived quantities | Categorizing different physical quantities | Written exercise | Reference materials |

## ASSESSMENT METHODS

• Continuous Assessment: Practical exercises, group discussions, short quizzes, and oral questioning.

• Project Work: Measuring household objects and recording data.

• Mid-Term and End-of-Term Exams: Written tests covering theory and practical knowledge.

## RESOURCES & MATERIALS

• Textbooks: Senior One Physics Books.

• Laboratory Equipment: Rulers, measuring cylinders, balances, stopwatches.

• Charts and Posters: SI units, density applications.

• ICT Materials: Physics-related videos.

## EXPECTED OUTCOMES

• Exhibit an understanding of the scientific approach to physics.

• Accurately measure length, mass, time, and volume using appropriate instruments.

• Interpret and present data using graphical methods.

• Apply knowledge of density in real-life situations.