

PHYSICS EXAMINATION SYLLABUS

FORM 1

1. INTRODUCTION TO PHYSICS

1. physics as a science (reference to primary science syllabus)
2. Meaning of physics
3. Branches of physics
4. Relationship between physics and other subjects and technology
5. Career opportunities in physics
6. Basic laboratory safety rules

2. MEASUREMENTS

1. Definition of length, area, volume, mass, density and time
2. SI units and symbols
3. Estimation of quantities
4. Conservation of units
5. Measuring instruments
6. Experiments on density
7. Problems on density

3. FORCES

1. Definition of force
2. Types of forces including cohesive, adhesive and surface tension
3. Experiments to demonstrate cohesion, adhesion and surface tension
4. Effects of force
5. Mass, weight and their relationship
6. Scalar and vector quantities
7. Problems involving $W=mg$ (take $g=10\text{m/Kg}$)

4. PRESSURE

1. Definition of pressure
2. Pressure in solids
3. Factors affecting pressure in fluid
4. Derivation of $P=h\rho g$
5. Atmospheric pressure
6. Simple mercury barometer
7. Application of pressure: drinking straw, siphon, hydraulic press, hydraulic brakes, bicycles, pump, force, pump, lift, pump
8. Problems on pressure

5. PARTICULATE NATURE OF MATTER

1. Experiments to show that matter is made up of tiny particles (eg cutting papers into small pieces, dilution experiments)
2. Brownian motion
3. Diffusion (Grahams law not required)

6. THERMAL EXPANSION

1. Temperature
2. Thermometers

Kenya Physics Syllabus

JA Banks



Kenya Physics Syllabus:

Whispering the Secrets of Language: An Psychological Journey through **Kenya Physics Syllabus**

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