PHYSICS EXAMINATION SYLLABUS

FORM 1

1. INTRODUCTION TO PHYSICS

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

2. MEASUREMENTS

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

3. FORCES

- Definition of force
- 2. Types of forces including cohesive .adhesive and surface tension
- Experiments to demonstrate cohesion, adhesion and surface tension)
- 4. Effects of force
- 5. Mass ,weight and their relationship
- Scalar and vector quantities
- Problems involving W=mg (take g=10n/Kg)

4. PRESSURE

- 1. Definition of pressure
- Pressure in solids
- 3. Factors affecting pressure in fluid
- 4. Derivation of Peah
- Atmospheric pressure
- 6. Simple mercury barometer
- Application of pressure drinking straw syringe 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 tin
- particles (eg cutting papers into small pieces dilution experiments
- 2. Brownian motion
- 3. Diffusion (Grahams law not required)

6. THERMAL EXPANSION

- Temperature
- thermometers

Kenya Physics Syllabus

Jessica J Manson



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