THEMI HILL SECONDARY SCHOOL PHYSICS

100 QUESTION FORM ONE

- 1. What do you understand by the term Physics
- 2. What is matter
- 3. Define the term energy
- 4. Define the term science

What is the relationship between physics and the following subjects?

- 5. Mathematics
- 6. Chemistry
- 7. Biology
- 8. Geography

Explain how you can apply physics

- 9. At home
- 10. At hospital
- 11. In industries
- 12. In transport
- 13. At school
- 14. In communications
- 15. A person who study physics is called
- 16. What is laboratory
- 17. List ten laboratory rules
- 18. List five safety measure you know
- 19. What is first aid kit

What is the use of the following items?

- 20. Antiseptic soap
- 21. Bandages
- 22. Gloves
- 23. Painkiller
- 24. Thermometer
- 25. Scissor
- 26. Petroleum jelly

Give the meaning of the following warning sign

- 27. Toxic
- 28. Irritant
- 29. Flammable
- 30. Oxidizing agent
- 31. Corrosive
- 32. Explosive
- 33. What are the steps in scientific investigation
- 34. What is scientific method
- 35. What are the uses of the following laboratory apparatii
- 36. Measuring cylinder

- 37. Thermometr
- 38. Stop watch
- 39. Micrometer screw gauge
- 40. Vernier caliper
- 41. Microscope
- 42. Spring balance
- 43. Pippete
- 44. Burette
- 45. Beam balance
- 46. Bunsen burner
- 47. Conical flask
- 48. What is measurement
- 49. Define the term physical quantity
- 50. Mention three derived physical quantities

Define the following terms;

- 51. Mass
- 52. Temperature
- 53. Length
- 54. time

Mention the instruments which are used to measure;

- 55. mass
- 56. length
- 57. time
- 58. When an irregular solid was immersed in 65cm³ of water, the water level rose to 81 cm³. What was the volume of the solid?
- 59. What is error?
- 60. What is density?
- 61. An irregular solid X has a mass of 50g. When it is totally immersed in water of volume 60cm³, the final water volume is read as 70cm³. Calculate the density of irregular solid X.
- 62. A piece of copper metal of volume 5.1cm³ has a mass of 41.6g. Calculate the relative density of copper.

- 63. What is force?
- 64. Mention types of forces.
- 65. In a single word what does force of gravity mean?
- 66. Mention eight effects of forces.
- 67. In an object weighs 30N on the earth is its mass?
- 68. If an object has a mass of 200g, how much would it weigh on the earth?
- 69. An object weighs 200N on the earth. What would be its mass on the moon?

Define the following terms

- 70. friction force
- 71. restoring force
- 72. stretching force
- 73. What is the difference between friction force and viscosity force?
- 74. What is the difference between repulsion force and attractive force?
- 75. State the four types of fundamental forces.
- 76. Define the following terms
- 77. Floating
- 78. Sinking
- 79. Up thrust
- 80. A hydrometer is an instrument used for measuring
 - 81. What is Buoyancy force?
- 82. Explain the following terms:
 - a) Real weight
 - b) Apparent weight
- 83. State Archimedes' principle.
- 84. Mention three conditions for floating.

85.	State law of floatation
86.	What is hydrometer?
87.	An object with a volume of 150cm ³ is floating in water 60% of its volume submerged. What is the density of the object?
88.	What is matter?
89.	Define the following terms;
	a) Elasticity
	b) Surface tension
	c) Capillarity
	d) Osmosis
	e) Diffusion
90.	State Kinetic theory of matter.
91.	State Hooke's law
92.	Mention three physical states of matter.
93.	Analyze the difference between adhesion and cohesion.
94.	Distinguish between elastic and plastic materials.
95.	The attractive forces between molecules of different substances is called
96.	The elastic force constant of a spring is obtained by the ratio of
97.	Which phenomenon is taking place when kerosene rises up a wick?
98.	State the difference between a solid, a liquid and a gas.
99.	A certain spring has a force constant of k = 25 N/cm.
	a) If an object with a mass of 500g were hung from the spring, how far in centimeters, would it stretch?
	b) What is the mass of an object that stretches the spring 35cm?
100.	Explain how oil can float on water.

101.	Explain how adding soap to the water would cause the oil and water to mix	