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2. Cut – tie the wound to stop bleeding and then seek medical care

Poisoning - seek medical care immediately

- 3. thermodynamics
 - Atomic physics
 - Waves
 - Geometric optics
 - Electricity and magnetism
 - Mechanics (any two)
- 4. The lenses used in microscope to study cells in biology are studied in physics
- 5. Can stop a moving body
- can slow down a body in motion
- can put a stationary body in motion
- can distort the shape of a body (any three)
- 6. No eating in the laboratory
 - No putting foreign tunings in the sockets
 - No performing practical's without teachers instruction. (any three)
- 7. a) $P_1 = 69.0 \text{ cm}$ $P_2 = 71.0 \text{ cm}$ $P_3 = 72.1 \text{ cm}$
 - b) The object should be in constant with the ruler
 - The end of the object should be placed against the zero mark of the ruler
 - The eye should be placed perpendicularly above the scale
- 8. a) $1\text{m}^2 = 10000 \text{ cm}^3$ 0.5 x 10,000 0.5m^2 5000 cm²

9. a) Volume is the amount of space occupied by an object SI unit cubic meters

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b)
$$V = {}^{4}/_{3}$$

 ${}^{4}/_{3} \times {}^{22}/_{7} \times 3 \times 3 \times 3$
= 113.1148cm³

10. mass

weight

- measured in kg

- measured in N
- measure a beam balance
- measured by spring
- quantity of matter in an object
- pull of gravity in an object

Any correct three)

- b) Mass per unit volume kg/m³
- c) mss of water = 40.0g 20.0g = 20g

volume of water =
$$m = 40g = 20cm^3$$

p $1gcm^3$

mas of liquid
$$x = 50.\text{og} - 20.0\text{g}$$

= 30.0g

$$P = \underline{m} = 360.0g$$

v 20.0

$$= 1.5 \text{g/cm}^3$$

- ii) Weight in air weight in water a 120 N - 80N = 40N
- b) imparities addition lowers surface tension
 - temperature increase lowers the surface tension.

12. a)
$$w = mg$$

$$\frac{1000 \text{ N}}{50} = \frac{50}{50} \times g$$

$$g) = 10N/kg$$

- b) Cohesive forces between molecule of mercury is greater than the adhesive forces between the mercury molecules and glass molecules hence the shape.
- 13. a) Force acting perpendicular per unit area N/m²

b)
$$P = \frac{F}{A}$$

10000

$$P = \frac{100 \text{ N}}{100} \div 10,000$$
$$= 10,000 \text{ N/m}^2$$

