

SS2 PHYSICS HOME WORK

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	TOPIC	CONTENT	OBJECTIVES
1	Fluids at rest and in motion	<ul style="list-style-type: none"> -meaning of surface tension -molecular explanation of surface tension -factors affecting surface tension Effect of surface tension. -application of the effects of surface tension -capillarity -friction in fluids 	<p>At the end of the lesson, the students should be able to</p> <ul style="list-style-type: none"> -differentiate between cohesion and adhesion -explain effects of surface tension -explain the application of surface tension -Explain the effect of capillary action -Explain the determination of terminal velocity -Explain the application of viscosity and terminal velocity -Explain similarities and differences between viscosity and friction.
2	Harvesting of solar energy-solar collector	<ul style="list-style-type: none"> -production of solar energy -solar collectors or solar panel -construction of flat plate solar collector -principle of operation of flat plate solar collector -focusing collector -applications of solar panels -the industrial units 	<p>At the end of the lesson, the students should be able to</p> <ul style="list-style-type: none"> -State two particles and two wave properties of photons -Explain the applications of solar energy -Describe ways of improving the efficiency of a solar collector -Describe briefly the structure of a solar panel -itemize the components parts of a flat plate solar collector -Describe the principle of operation of a solar collector

REVISION QUESTIONS FOR WEEK 1 TOPIC

1. The action of blotting paper on ink is due to

A. diffusion
tension

B. osmosis

C. capillarity

D. Surface

2. The meniscus of water in a capillary tube is

- A. Convex B. Concave C. Straight D. dependent on the bore of the tube**

3. The rising of a liquid in an open-ended glass tube of narrow bore is

- A. osmosis B. adhesion C. capillarity D. Surface tension**

4. Solid friction, like viscosity, is

- A. independent of the surface areas in contact B. independent of the relative motion between layers**
C. dependent on normal reaction D. in opposition to motion

5. Which of the following substances is the most volatile at room temperature?

- A. water B. diesel C. petrol D. kerosene**

6. The movement of fluid up or down a narrow tube is

- A. osmosis B. Brownian motion C. capillarity D. diffusion**

7. Which of the following substances lowers the surface tension of water?

- A. metal B. sand C. detergent D. paper**

8. The viscosity of oils and greases decreases with

- A. concentration B. pressure C. temperature D. terminal velocity**

9. Water is not used as a lubricant because it has a

- A. High viscosity B. low viscosity C. high temperature D. low temperature**

10. The internal friction between layers of a liquid or gas in motion is called

- A. surface tension B. Capillarity C. Viscosity D. Cohesion**

REVISION QUESTIONS FOR WEEK 2 TOPIC

1. Energy released from the sun is known as

- A. Solar energy B. Nuclear energy C. chemical energy D. light energy**

2. Which of the following is a vast ball of hot glowing gas

- A. moon B. Sun C. solar planet D. energy**

3. Which of the following is an enormous energy source

- A. Moon B. planet C. sun D. fission**

4. A huge amount of energy is produced in the sun by the process of

- A. Nuclear fission B. Nuclear fusion C. radioactivity D. alpha particles**

5. A horsepower (1hp) is equal

- A. 544 watts B. 345watts C. 746watts D. 0.746watt**

6. The industrial unit of area is

- A. hectare B. metre C. acre D. barrel**

7. Another name for transparent cover is called

- A. glazing B. glaze C. barrel D. insulation**

8. Solar energy is harvested through

- A. glaze B. sun C. solar collector D. focusing collector**

9. Which of the following part of a flat plate collector receives the short wave solar radiation and in turn absorbs it.

- A. glazing B. glaze C. metal flat plate D. thermal insulation**

10. Which of the following part of a flat plate solar collector is made of glass

- A. thermal insulation B. metal flat plate C. transparent cover D. tubes**

SUBJECT TEACHER CONTACT FOR ASSISTANCE

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NOTE

-Students should feel free to interact with the above physics teacher for assistance through phone calls or WhatsApp or Email.

-Students should answer questions in their test and assignment exercise book.