

VASISHTHA GENESIS SCHOOL, BARDOLI

Worksheet PT-2

Name: _____

Roll No: _____

Class: 8 Div: _____

Subject: SCIENCE

Date: _____

CHAPTER 6: Pressure, Winds, Storms And Cyclones

Choose the correct option:

- Which of the following statements is correct regarding air pressure and wind speed?
a) High-speed winds increase air pressure b) High-speed winds decrease air pressure
c) High-speed winds have equal air pressure on all sides d) Wind speed has no effect on air pressure
- What happens when warm and moist air rises from the land?
a) A high pressure area is created b) The air flows laterally
c) No change occurs d) A low pressure area is created
- Which of the following is the SI unit of pressure?
a) Joule per second b) Newton per square meter (N/m^2)
c) Kilogram per meter d) Watt per meter
- What would be the impact on wind if global temperatures were unchanged over large areas?
a) It would rain constantly b) Winds would blow faster due to uniform cooling
c) There would be minimal to no wind movement d) Wind patterns would be unpredictable

Fill in the blanks:

- A sudden rise of sea water pushed by cyclone winds onto land is called a storm _____.
- The force exerted by air that shapes weather events like storm is called _____.
- The envelope of air surrounding the Earth is called _____.
- Thunder clouds are also called _____.

Answer the following questions:

- How do water droplets turn into rain during storms?
- Name three gases found in atmospheric air.
- Define the term 'sea breeze.'
- Define the term: Atmospheric pressure.
- Which instrument is used to measure atmospheric pressure?
- How could changes in air pressure predict weather conditions in coastal areas?
- Explain how a storm becomes a cyclone.
- What is a thunderstorm? Explain the process of its formation.

CHAPTER 7: PARTICULATE NATURE OF MATTER

Choose the correct option:

- What are constituent particles?
a) Materials that are always visible b) Changes caused by physical forces
c) Chemical changes within matter d) Smallest units of a substance
- If a rock is broken into sand, clay, and pebbles, how is this change best described?
a) A transformation into new substances b) An irreversible chemical reaction
c) A physical reduction of size d) A change in the state of matter

19. What is the main idea behind the formation of sand and clay from rocks?
a) Natural erosion processes b) Human activities
c) Construction activities d) Animal impact
20. Why do sugar particles seem to disappear in water?
a) They become invisible due to dilution b) They chemically transform into another substance
c) They dissolve and occupy interparticle spaces d) They become microscopic elements

Fill in the blanks:

21. Forces of attraction in liquids are _____ than in solid.
22. Solid, liquid and gas are called the three _____ of matter.
23. Matter is made up of small _____.

Answer the following questions:

24. What factors determine the state of matter?
25. Define: Diffusion.
26. Why can gases be compressed easily?
27. Describe the process that occurs when a liquid boils.
28. State the characteristics of solid, liquid and gases.