



Practice Worksheet on Properties of Water

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Long Answer Questions

1. Explain the three states of water and how it changes between them.
2. Describe water's ability to dissolve substances, providing examples of substances that dissolve and those that don't.
3. Define evaporation and explain the process.
4. Explain the importance of water to living organisms.
5. List and describe at least four physical properties of water.
6. Describe the processes of freezing, melting and boiling of water, including the temperatures involved.
7. What is a solution? Give three examples of solutions that use water as a solvent.

8. Define a saturated solution and explain what happens if you try to dissolve more solute into it.

Multiple Choice Questions

1. In what states of matter can water naturally exist?

- a) Only in liquid form
- b) In solid, liquid, and gas forms
- c) Only in solid and liquid forms
- d) Only in gas form

2. At what temperature does water freeze?

- a) 0°C
- b) 100°C
- c) 25°C
- d) 50°C

3. Which of these substances readily dissolves in water?

- a) Oil
- b) Salt
- c) Sand
- d) Sugar

4. The change from liquid water to water vapor is called:

- a) Evaporation
- b) Condensation
- c) Freezing
- d) Melting

5. Which of the following is a property of water?

- a) It has a strong odor
- b) It has a definite shape
- c) It is a good solvent
- d) It is always a solid

6. Which of the following is a characteristic of water?

- a) It takes the shape of its container
- b) It is odorless
- c) It is transparent
- d) All of the above

7. Which statement is true about water and ice?

- a) Water expands when it freezes
- b) Ice floats on water
- c) Water is denser than ice
- d) Water always boils at 50°C

8. Which of the following statements about water is correct?

- a) Water is a poor solvent
- b) Water only exists in a liquid state
- c) Water is essential for life
- d) Water is a bad conductor of heat

Answer Key

Long Answer Questions - Expected Responses

1. Explain the three states of water and how it changes between them.

Expected Answer: Water exists in three states: solid (ice, snow), liquid (water, rain), and gas (water vapor). It changes states with temperature.

2. Describe water's ability to dissolve substances, providing examples of substances that dissolve and those that don't.

Expected Answer: Water dissolves many substances, creating solutions like saltwater or sugar water. However, some substances like oil and sand do not dissolve.

3. Define evaporation and explain the process.

Expected Answer: Evaporation is the change of water from liquid to gas (water vapor). This happens when water is heated or exposed to air.

4. Explain the importance of water to living organisms.

Expected Answer: Water is essential for life. It is the main component of cells and bodies of many living organisms.

5. List and describe at least four physical properties of water.

Expected Answer: Water's properties include being colorless, odorless, tasteless, and taking the shape of its container. It is also a good solvent.

6. Describe the processes of freezing, melting and boiling of water, including the temperatures involved.

Expected Answer: Freezing occurs below 0°C, and melting occurs above 0°C. Boiling occurs at 100°C.

7. What is a solution? Give three examples of solutions that use water as a solvent.

Expected Answer: A solution is a mixture of a solvent and solute, water often being the solvent. Examples include saltwater, sugar water, and many beverages.

8. Define a saturated solution and explain what happens if you try to dissolve more solute into it.

Expected Answer: A saturated solution is one where no more solute can dissolve in the solvent at a given temperature. Further addition of solute would result in a precipitate or undissolved substance

Multiple Choice Questions – Correct Answers

1. In what states of matter can water naturally exist?

Correct Answer: In solid, liquid, and gas forms

2. At what temperature does water freeze?

Correct Answer: 0°C

3. Which of these substances readily dissolves in water?

Correct Answer: Salt

4. The change from liquid water to water vapor is called:

Correct Answer: Evaporation

5. Which of the following is a property of water?

Correct Answer: It is a good solvent

6. Which of the following is a characteristic of water?

Correct Answer: All of the above

7. Which statement is true about water and ice?

Correct Answer: Ice floats on water

8. Which of the following statements about water is correct?

Correct Answer: Water is essential for life