🌡️ WATER TEMPERATURE CHANGES

Using Space–Time Relationship

Name: _____

Class: _____

Date: _____

🧊 PART A: OBJECTIVE QUESTIONS

Choose the best answer.

1. 🧊🌡️

An ice cube starts at **0°C**. What is its temperature after **two minutes**?

A. 0°C

B. 3°C

C. 6°C

D. 8°C

2. 🔥💧🌡️

The table shows the temperature of water while being heated.

Time (minutes)	Temperature
0	0°C
2	3°C
4	6°C
6	8°C

What happens to the temperature as time increases?

A. It decreases

B. It increases

C. It remains constant

D. It becomes 0°C

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3. 🧊➡️💧

At what temperature does ice **melt**?

A. 0°C

B. 25°C

C. 50°C

D. 100°C

4. 🔥♨️💧

What is the **boiling point of water**?

A. 0°C

B. 25°C

C. 50°C

D. 100°C

5. 🌡️📈🔥

Look at the temperature changes:

0°C → 3°C → 6°C → 8°C → 20°C

What does this show?

A. Water is cooling

B. Water is freezing

C. Water is getting warmer

D. Water temperature is constant

6. ♨️💧➡️❄️

Hot water is left unattended.

What will happen to its temperature?

A. It will continue increasing forever

B. It will decrease gradually

C. It will immediately become 0°C

D. It will remain at 100°C

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7. 💧🌡️⬇️

Hot water has a temperature of **100°C**. After some time, its temperature becomes **80°C**.

What is happening to the water?

A. It is heating up

B. It is boiling faster

C. It is cooling down

D. It is freezing

8. 🌡️💧🏠

Hot water is left in a room where the temperature is **25°C**.

What will eventually happen to the water temperature?

A. It will become 100°C

B. It will become 50°C

C. It will approach 25°C

D. It will become 0°C

9. 📊⏱️🌡️

Which two quantities are observed when studying the change in water temperature?

A. Mass and volume

B. Time and temperature

C. Length and mass

D. Volume and colour

10. 📈🌡️🔥 / 📉🌡️❄️

Which statement is **correct**?

A. Water temperature increases when water is cooled.

B. Water temperature decreases when water is heated.

C. Water temperature increases when heated and decreases when cooled.

D. Water temperature always remains constant.

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PART B: SIMPLE SUBJECTIVE QUESTIONS

1.

What is the **freezing point of water**?

Answer: _____

2.

What is the **boiling point of water**?

Answer: _____

3.

The temperature of water changes from **0°C → 3°C → 6°C → 8°C**.

What happens to the temperature of the water?

Answer: _____

4.

A cup of hot water is left on a table.

What happens to its temperature after some time?

Answer: _____

5.

Why do we record the **time** and **temperature** when investigating changes in water temperature?

Answer: _____

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