

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

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

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.

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: _____