

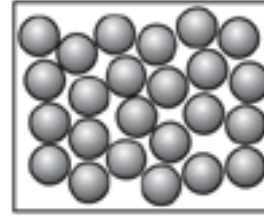
1. Water boils at 100°C and freezes at 0°C .

Draw lines to connect each **temperature** with the **particle model** of water.

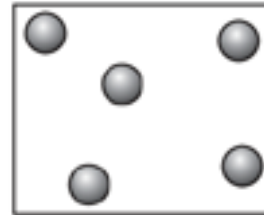
Temperature

Particle Model

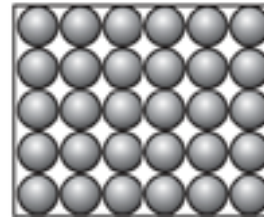
-5°C



25°C



110°C



[2]

2. Which of these changes is a **chemical** change?

- A Ice melting
- B Shaping hot metal with a hammer
- C Water condensing
- D Wood burning

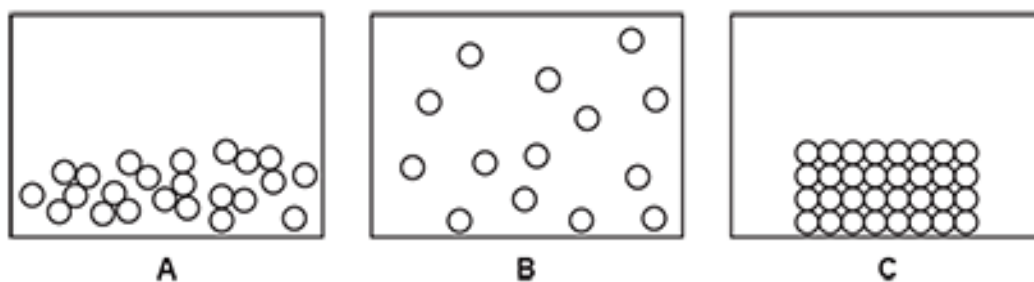
Your answer

☐

[1]

3. Oxygen is a gas at room temperature.

- i. The diagrams show three different particle models.



Which particle model represents a **gas**?

Tick (✓) **one** box.

A ☐ B ☐ B ☐

[1]

- ii. Oxygen has a melting point of -219°C and a boiling point of -183°C .

State a temperature at which oxygen will be a **liquid**.

[1]

- iii. Complete the sentences about the particle models.

Use words from the list.

condensing freezing less melting more

A liquid becoming a solid is called In a solid, the particles move than in a liquid. In a solid, the arrangement of particles is random than in a liquid.

[3]

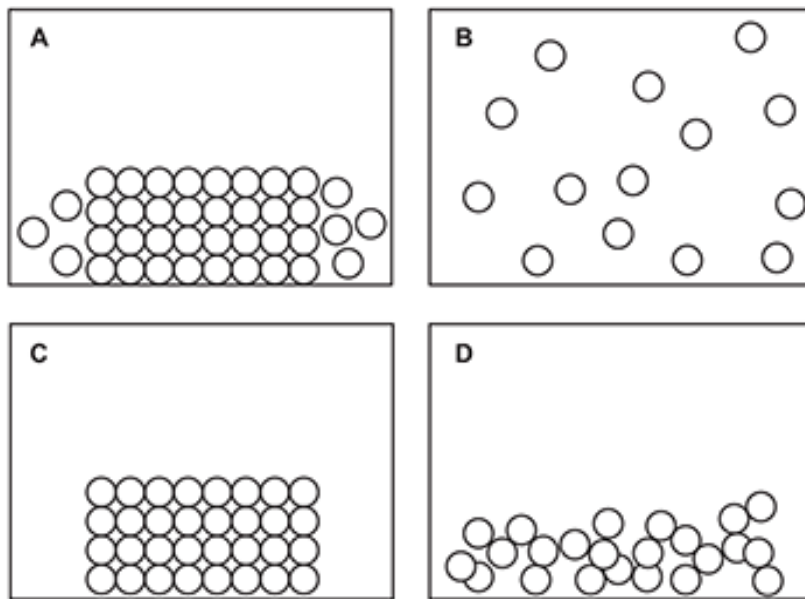
4. Which description is correct for melting ice?

- A There is a chemical change and a change of state.
- B There is a chemical change and a reaction occurs.
- C There is a physical change and a change of state.
- D There is a physical change and a reaction occurs.

Your answer ☐

[1]

5. Which particle model diagram shows a gas?



Your answer ☐

[1]

END OF QUESTION PAPER