

0	1
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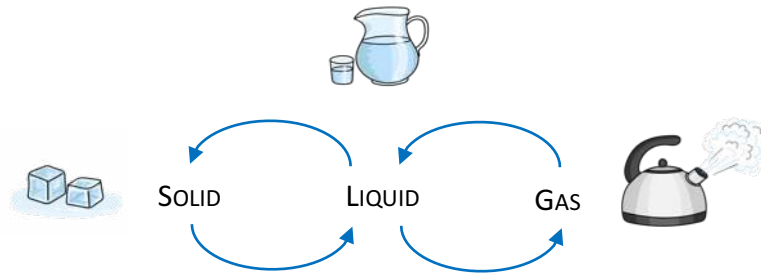
Melting, evaporation, freezing and condensation are four examples of **physical changes**.

0	1
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 .

1

Label each of the arrows in the below diagram with the correct physical change which occurs as a substance changes between the solid, liquid and gas states.



[4 marks]

0	1
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 .

2

Explain what is meant by a **physical change**.

[2 marks]

0	1
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 .

3

Under the right conditions, a substance can change directly from a solid to a gas. State the name of this process.

[1 mark]

0	2	.	1
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State the meaning of the term **internal energy**.

[2 marks]

0	2	.	2
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As the temperature of a substance increases, what happens to its internal energy? Tick **one** box.

It increases

It decreases

It stays the same

[1 mark]

0	2	.	3
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An ice cube is placed into a glass of water which is at room temperature. After 15 minutes, the ice has melted completely.

Using the **particle model**, explain fully what happens to the ice as it melts.

[4 marks]