

Changes of State **Cut and Stick**

Cut out all the cards and rearrange them to form a flow chart that describes how matter changes from one state to another. Colour the arrows in blue to show where energy is given out, or in red to show where energy is supplied.

When a solid is heated, the particles gain energy. The particles begin to move more quickly and the forces holding the solid's shape weaken. The solid expands and some particles have enough energy to break free from their positions.

When a liquid is cooled, the particles lose energy. They move more slowly and begin to form strong bonds that hold them into fixed positions. The liquid will become solid with a rigid shape.

When a liquid is heated, the particles gain more energy. The particles begin to move more quickly and the forces holding the liquid weaken. When the particles gain enough energy at certain temperatures, they break free.

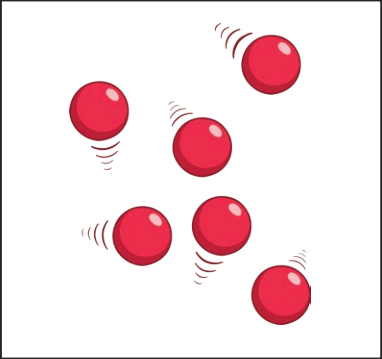
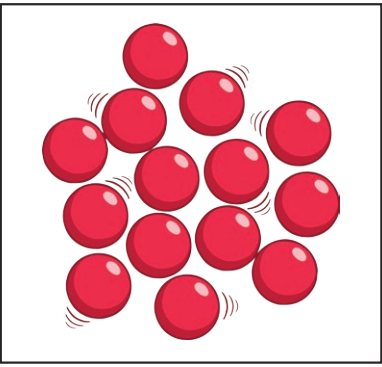
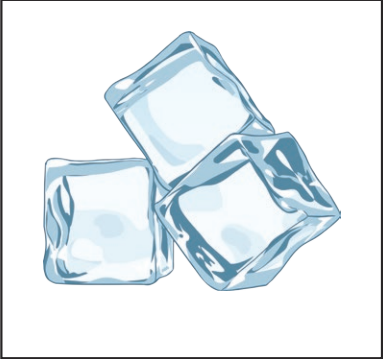
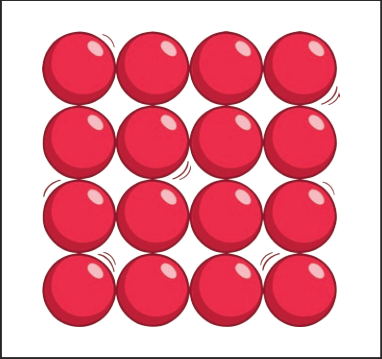
When a gas is cooled, the particles lose energy. They move more slowly and begin to position themselves more closely together. The gas condenses into a liquid.

melting

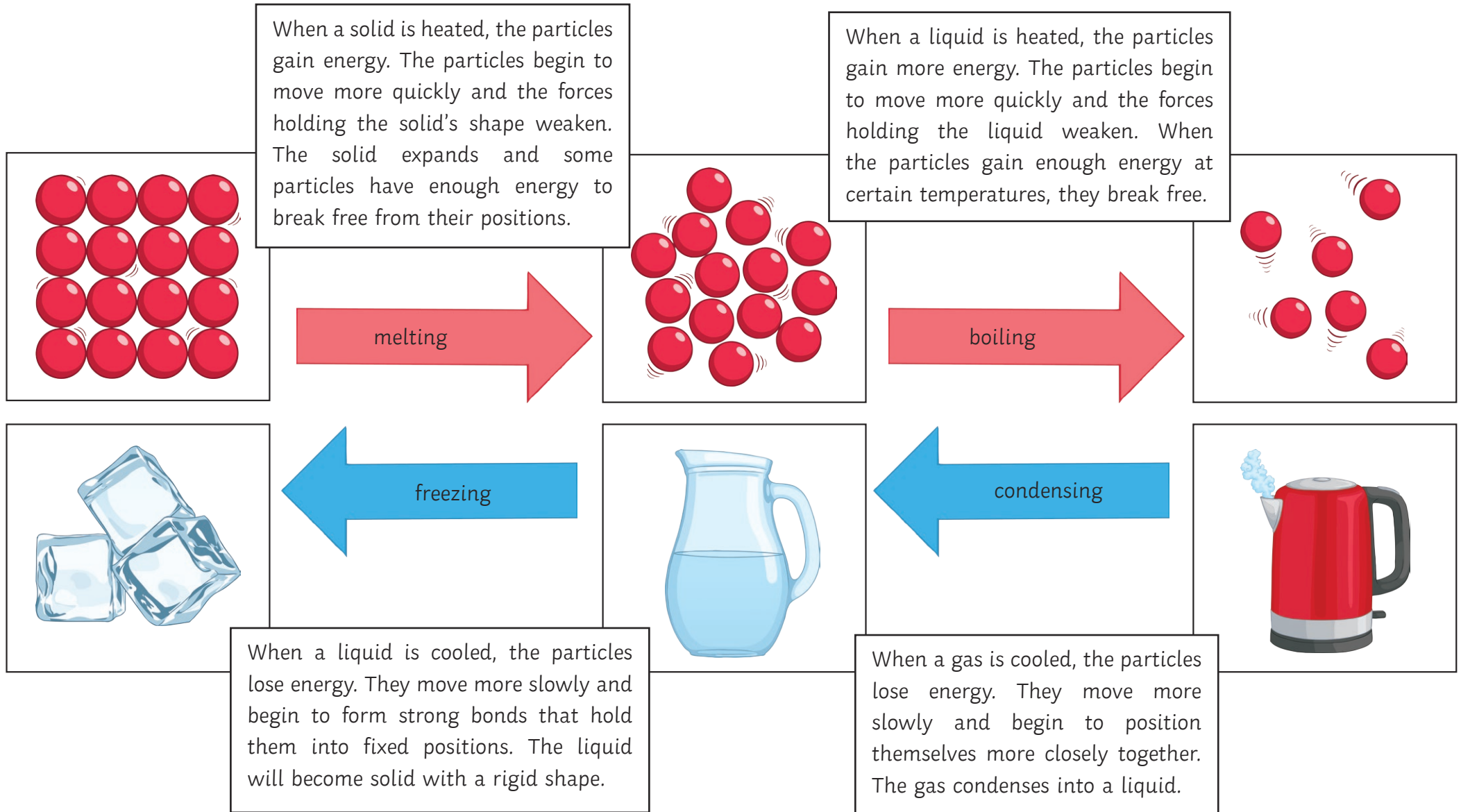
boiling

condensing

freezing

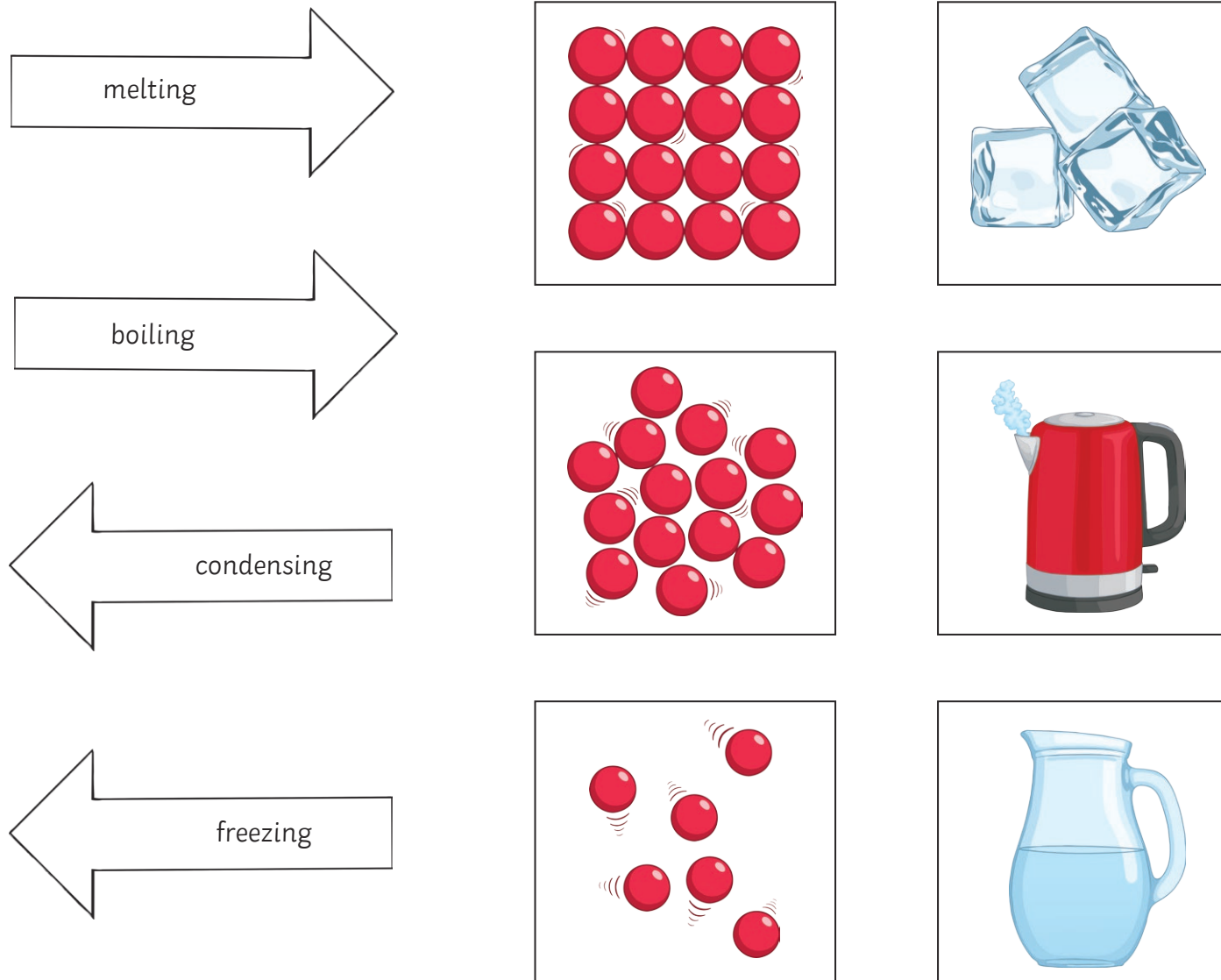


Changes of State Cut and Stick Answers

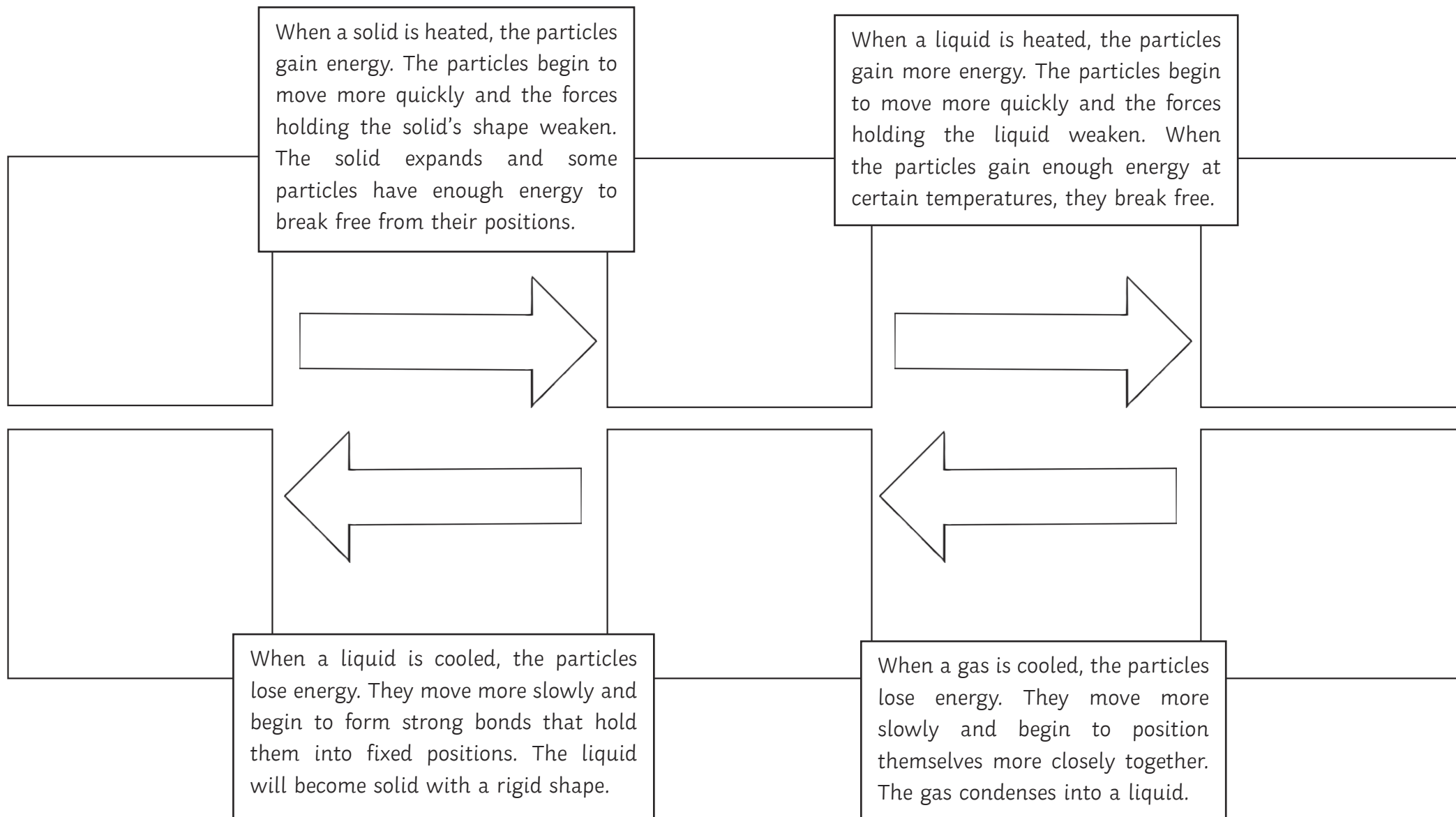


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1. Read the descriptions on the flow chart.
2. Cut out the cards below and stick them onto the flow chart to show how matter changes from one state to another.
3. Colour the arrows in blue to show where energy is given out, or in red to show where energy is supplied.



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