

AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

The three states of matter
Questions

M M E

Mathsmadeeasy.co.uk

Total Marks: /16

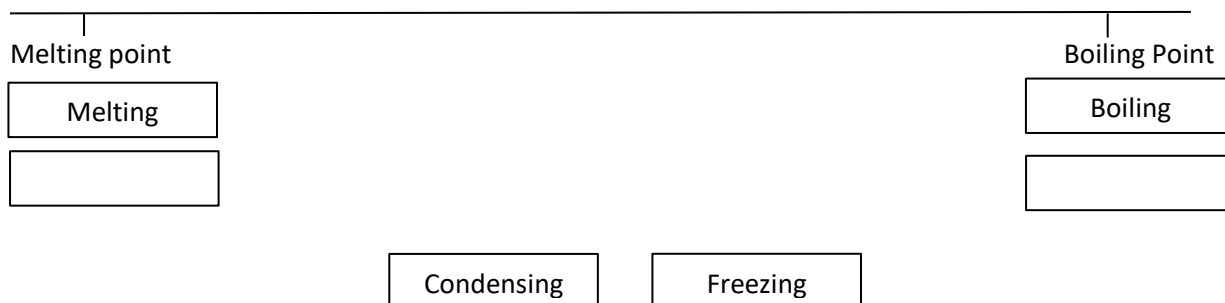
Visit <http://www.mathsmadeeasy.co.uk/> for more fantastic resources.

Q1) What are the three states of matter (include their state symbols)?

- 1 _____
- 2 _____
- 3 _____

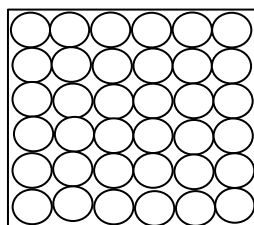
(3 marks)

Q2) Complete the diagram to show where condensing and freezing occur.



(2 marks)

Q3) The three states of matter can be represented by a simple model. In this model, particles are represented by small circles or spheres. Complete the model diagram.



Solid



Liquid



Gas

(2 marks)

Q4) What is the limitation of this model?

(1 mark)

Q5) Different substances require different amounts of energy to change state. Why is it different amounts of energy for different substances?

(2 marks)

Visit <http://www.mathsmadeeasy.co.uk/> for more fantastic resources.

Q6) Sodium chloride's melting point is 801°C , its boiling point is 1413°C . On the basis of this, complete the table.

Temperature	Solid, liquid or gas
1800°C	
400°C	
805°C	

(3 marks)

Q7) Order the substances, from highest boiling to lowest boiling point according to their type of bonds.

Highest boiling point



Lowest boiling point

Sodium chloride (ionic bonding)

Water (covalent)

Iron (metallic bonding)

(3 marks)