

Energetics (KS3)

Section A – Recall (1–2 marks each)

Q1 (1 mark)

What is an exothermic reaction?

Q2 (1 mark)

What is an endothermic reaction?

Q3 (1 mark)

What happens to particles during melting?

Q4 (1 mark)

What happens to energy during freezing?

Q5 (2 marks)

State TWO examples of exothermic reactions.

Q6 (2 marks)

State TWO examples of endothermic reactions.

Section B – Understanding (3 marks each)

Q7 (3 marks)

Explain why melting is an endothermic process.

Q8 (3 marks)

Explain why condensation is an exothermic process.

Q9 (3 marks)

Explain the difference between exothermic and endothermic reactions.

Section C – Application (3-4 marks each)

Q10 (3 marks)

A student at *Learntit* measures the temperature during a reaction and notices the temperature increases. Explain what this shows about the reaction.

Q11 (4 marks)

Explain the energy changes that happen when water boils.

Section D – Extended Response (6 marks each)

Q12 (6 marks)

Explain energy changes during changes of state using the particle model.

Q13 (6 marks)

Explain the differences between exothermic and endothermic reactions, including examples.

Total: ____ / 36

Percentage: ____%