

Energy — Full Revision

Name:

Date:

INQUIRY

Energy stores, transfers, efficiency, conservation, resources, sustainability — the complete picture.

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Efficiency	Useful output / total input x 100%.
Conservation	Energy can't be created or destroyed.
Renewable	Won't run out.

Full Revision (28 marks)

1. Name the energy store: (a) moving bus (b) hot soup (c) stretched spring (d) coal. [2 marks]

2. Input 500 J, useful 150 J. Calculate efficiency. [2 marks]

Show your working:

3. GPE = 200 J at top. KE = 170 J at bottom. Energy dissipated? [1 marks]

Show your working:

4. Name 3 renewable and 3 non-renewable energy sources. [3 marks]

5. Explain why no machine can be 100% efficient. [2 marks]