

GCSE Physics (AQA Triple) – Topic: Energy [Higher Tier]

Answer all questions. This worksheet includes a 6-mark required practical question.

1. Recall Questions (4 marks)

- a) State the equation for kinetic energy. (1 mark)
- b) Name the energy store that increases when an object is lifted vertically. (1 mark)
- c) Define the term 'specific heat capacity'. (2 marks)

2. Application & Calculations (8 marks)

- a) A car of mass 1200 kg is travelling at 20 m/s. Calculate the kinetic energy of the car. (2 marks)
- b) A kettle transfers 96000 J of energy in 120 s. Calculate the power of the kettle. (2 marks)
- c) A metal block of mass 2.0 kg is heated, and its temperature rises by 10°C. The specific heat capacity of the metal is 380 J/kg°C. Calculate the energy transferred. (3 marks)
- d) Define the term 'efficiency' and write down the equation for it. (1 mark)

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Michael Seilmaier



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