

# Using the equation for kinetic energy

Round any answers that need rounding to 3 significant figures

## Questions relating to the equation

- 1) State the equation for kinetic energy.
- 2) State what each of the symbols stands for and give the unit that each is measured in.
- 3) Describe the relationship between mass and kinetic energy if the velocity remains constant.
- 4) Describe the relationship between velocity and kinetic energy if the mass remains constant.
- 5) What happens to the kinetic energy of an object if its mass is doubled and its velocity remains constant?
- 6) What happens to the kinetic energy of an object if its mass is halved and its velocity remains constant?
- 7) What happens to the kinetic energy of an object if its mass increases by a factor of 1.6 and its velocity remains constant?
- 8) What happens to the kinetic energy of an object if its mass remains constant and its velocity doubles?
- 9) What happens to the kinetic energy of an object if its mass remains constant and its velocity halves?
- 10) What happens to the kinetic energy of an object if its mass remains constant and its velocity increases by a factor of 3?
- 11) What happens to the kinetic energy of an object if its mass doubles and its velocity halves?
- 12) What happens to the kinetic energy of an object if its mass halves and its velocity doubles?
- 13) What happens to the kinetic energy of an object if its mass doubles and its velocity trebles?
- 14) Describe how to convert grams (g) into kilograms (kg).
- 15) Describe how to convert milligrams (mg) into kilograms (kg).
- 16) Convert the following into kilograms:

a) 100g	c) 2345mJ
b) 250g	d) $1.9 \times 10^6$ mJ
c) 1750g	e) 264kJ
	f) 0.85kJ

# Kinetic Energy Questions And Answers

**B Lingard**



## **Kinetic Energy Questions And Answers:**

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