

# GCSE REVISION BUDDY

## Kinetic Energy Worksheet

1. What is the Kinetic Energy of a car that travels at a speed of 20m/s and has a mass of 1200 kg?
2. What is the Kinetic Energy of a year 11 pupil with a mass of 55kg swinging back on their chair and falling off it at a speed of 0.6m/s?
3. What is the Kinetic Energy of a runner with a mass of 62kg running at a speed of 0.8m/s?
4. What is the velocity (speed) of a lift travelling up to the top floor of the Empire State building with a mass of 4200kg and a kinetic energy of 4116J?

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5. What is the velocity of a bird flying towards its nest with a mass of 0.25kg and a kinetic energy of 40.5J?
6. What is the velocity of a Wii remote flung from a hand through a TV, with a kinetic energy of 1.44J and a mass of 4.5kg?
7. What is the mass of an automatic door closing 0.2m/s, with a kinetic energy of 1.6J?
8. What is the mass of a wind turbine blade with a kinetic energy of 104040J, turning at 6m/s?