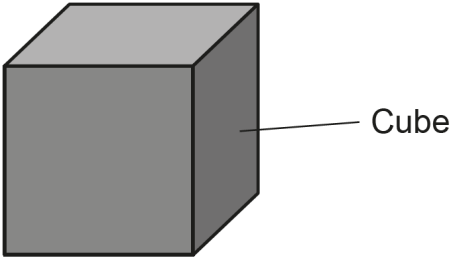


Physics 1 a Week Activity		Key Stage 3	30 th Week
Name:		Class:	
A student is given a solid metal cube.  i. Explain how the student can use a ruler to calculate the volume of the metal cube. ii. The metal cube has a volume of 125 cm³ and a mass of 850 g. Calculate the density of the metal cube. <i>Use the equation: density = mass ÷ volume</i> Density = ... g / cm³			
A car changes velocity from 2 m/s to 26 m/s in 6 s. What is the acceleration of the car? Acceleration = ...		A car has a mass of 1000kg and is travelling at a speed of 20m/s. Calculate the kinetic energy of the car. Kinetic energy = ...	
Six wave peaks hit a wall in one minute. Determine the frequency of the waves. A 0.1 Hz B 6 Hz C 360 Hz D 3.60 Hz		A car travels at a speed of 70mph (miles per hour). 1 mile is approximately 1600 metres. Convert 70mph into m/s. 	