

Energy in food and beyond	
What is energy in food measured in?	Calories or kilojoules (kJ)
What is energy measured in in physics?	Joules
How many Joules in a kilojoule?	1000
What factors affect how much energy a person needs?	Exercise, age, activity
Stores and transfers	
Name 5 energy stores	Thermal, gravitational potential, elastic potential, kinetic, chemical
Name 4 energy transfers	Sound, radiation, electrical, mechanical
Investigations	
What is the independent variable?	What you <b>change</b>
What is the dependent variable?	What you <b>measure</b>
What are the control variables?	Things you keep the same
What is a prediction?	What you think will happen in an experiment
Energy dissipation	
What does dissipation of energy mean?	Energy spreading out to the surroundings so that it is no longer useful
What is the law of conservation of energy?	Energy can't be created or destroyed, only transferred from one store to another
Fuels for energy	
Name 7 renewable energy resources (2 marks)	Wind, tidal, wave, biomass, solar, hydroelectric, geothermal
Name 3 non-renewable energy resources which are fossil fuels	Coal, oil, gas
How were oil and gas formed?	Over millions of years from the dead and decayed sea creatures.
How was coal formed?	Over millions of years from the fossilised remains of trees.
What does renewable mean?	Will not be used up (wind, solar etc) or can be replaced (biomass)
What gas is made burning fossil fuels?	Carbon dioxide
Energy and power	
What is the unit of power?	Watts (W)
What is the equation for power?	$Power = \frac{energy}{time}$
What is a kilowatt hour (kWh)?	A unit of electricity used to measure energy.
How do you work out the cost to use an appliance?	$cost = power (kW) \times time (hours) \times price (per kWh)$
How could you reduce energy usage?	Use lower power appliances, use appliances for less time