













During this topic I have shown that I can.....	Confidence (tick)		
			
describe and explain, in terms of electrons, why something becomes charged.			
identify and draw the components used in an electric circuit.			
set up and describe the differences between series and parallel circuits.			
state what current is and state the unit of current.			
set up a simple circuit and use appropriate equipment to measure current.			
describe how current changes in series and parallel circuits.			
describe what is meant by potential difference and state the unit of potential difference.			
describe how to measure potential difference.			
set up a simple circuit and use appropriate equipment to measure potential difference.			
describe how current changes in series and parallel circuits.			
describe what is meant by resistance.			
calculate resistance of a circuit.			




Energy 2 (3.3, 3.4, 4.3.2)  
Module Overview

During this topic I have shown that I can.....	Confidence (tick)		
			
calculate work done.			
state that machines change the size of forces or distances.			
apply the conservation of energy to simple machines.			
state the difference between energy and temperature.			
describe what happens when you heat up solids, liquids, and gases.			
describe how energy is transferred by particles in conduction and convection.			
describe how a thermal insulator can reduce energy transfer.			
describe some sources of infrared radiation, and how energy is transferred.			
describe different ways to insulate in terms of conduction, convection and radiation.			
name some waves of the electromagnetic spectrum.			

During this topic I have shown that I can.....	Confidence (tick)		
			
name the layers of the Earth.			
describe how sedimentary rocks are made.			
state one difference between igneous and metamorphic rocks.			
describe how igneous and metamorphic rocks are formed.			
give simple facts about how a rock can be changed from one type to another.			
list the properties and uses of ceramics.			
describe the structure of the Universe in detail, in order of size and of distance away from the Earth.			
explain why we see objects in the Solar System, and describe how they appear to move.			
explain why seasonal changes happen.			
describe the phases of the Moon.			

**Genes 1 (10.1, 10.2)**  
**Module Overview**

During this topic I have shown that I can.....	Confidence (tick)		
			
state that variation is caused by the environment or inheritance.			
describe the difference between continuous and discontinuous variation.			
explain how organisms are adapted to their environments.			
describe the main changes that take place during puberty.			
State a function of the main structures of the male and female reproductive system.			
describe the process of fertilisation and where it occurs in the body.			
state the definition of gestation.			
identify key events on a diagram of the menstrual cycle.			

During this topic I have shown that I can.....	Confidence (tick)		
			
describe how sound is produced and travels.			
define amplitude, frequency, and wavelength.			
describe the link between frequency and pitch.			
name some parts of the ear.			
describe some ways that light interacts with materials.			
identify examples of specular and diffuse reflection.			
state a difference between what happens to light when it goes through a convex lens and a concave lens.			
describe how the eye works.			
explain what happens when light passes through a prism.			