

FOCUS ON SCIENCE Year 1 Plans

Hello Everyone! Welcome to Year 1 of Focus on Science. This is a two year course and you can join us at any time! This shows what we will be covering this year.

You may see topics appearing more than once, this is to give us chance to revise as we go through and spend some extra time on those more tricky topics. The practical experiments are entirely optional but a lot of fun so join in with any that you can, but don't worry if you can't as I will demo everything and there will be alternative tasks to complete in the lessons.

The after topic questions are designed to consolidate and extend your learning or give you something to research, but also give you something to write down from the lessons so that you don't have to worry during the lessons. If you would like to share your answers to the after topic questions please let me know at the start of the lesson and I will allocate time for you to tell us!

See you in lesson!

Emma

Week Beginning Date	Topic	What you need	After Topic Question
8th Sept	CSI Science: Forensics at Work	nothing	How can forensic scientists avoid bias and ensure their conclusions are trustworthy?
15th Sept		soft pencil, paper, pencil sharpener	
22nd Sept		nothing	
29th Sept		thick cardboard or a corkboard, coloured pens, string, tape, glue, paper, finger prints from lesson 2, pushpins.	

6th Oct	The Physics of Rollercoasters	nothing	Why can a marble run complete a loop briefly upside down without falling?
13th Oct		ramp or tube, marble, timer, ruler.	
20th Oct		nothing	
27th Oct		card, scissors, pens, tape.	
3rd Nov	Inventions that Changed the World	plastic bottle with cap, glue gun/tape, scissors, plastic spoons, access to sink and water.	Which invention has most transformed daily life in the last 200 years, and why?
10th Nov		pens and paper	

17th Nov		pencil, ruler, paper	
24th Nov		pencil, ruler, paper	
1st Dec	Combustion: Fuels and Fire	candle, jar with lid, spoon, matches (adult supervision required)	Why is carbon monoxide especially dangerous indoors compared with outdoors?
8th Dec		nothing	
15th Dec		nothing	
5th Jan		Large piece of card/paper x 2, pens, scissors, tape.	
12th Jan	Senses and Signals: How We Respond	Paper and pencil	Why are some reactions reflexes while others require conscious thought, and when is each better?
19th Jan		long ruler and a helper	
26th Jan		nothing	
2nd Feb		paper and coloured pens, scissors, tape.	
9th Feb	Environmental Science: Saving the Planet	2 pebbles or glass beads, a glass jar, sunny window or bright light.	Is recycling alone enough to solve our waste problem? What else should be done?
16th Feb		nothing	
23rd Feb		nothing	

2nd March		coloured pens and paper	
9th March	Electrifying Ideas: Circuits and Currents	Nothing required but you may like to access this circuit simulation. https://phet.colorado.edu/sims/html/circuit-construction-kit-dc/latest/circuit-construction-kit-dc_all.html	Why might parallel circuits be preferred for lighting in a house?
16th March		Nothing required but you may like to access this circuit simulation. https://phet.colorado.edu/sims/html/circuit-construction-kit-dc/latest/circuit-construction-kit-dc_all.html	
23rd March		Nothing required but you may like to access this circuit simulation. https://phet.colorado.edu/sims/html/circuit-construction-kit-dc/latest/circuit-construction-kit-dc_all.html	
13th April		Large paper, pens, pencil.	
20th April		Kitchen Chemistry: The Science of Baking	
27th April	nothing		
4th May	nothing		
11th May	nothing		
18th May	DNA Detectives: The Code of Life	Paper, scissors, coloured pens, tape or glue.	Should farmers grow genetically modified crops in your area? Give scientific reasons for and against.

25th May		a soft fruit, salt, water, ziploc bag, coffee filter, rubbing alcohol or hand sanitiser, skewer.	
1st June		nothing	
8th June		nothing	
15th June	Acids, Bases and Fizz	nothing	Why do farmers sometimes add lime to fields, and how does that help crops grow?
22nd June		Red cabbage, pestle and mortar or heavy pan and wooden spoon, hot water or access to hob, chopping board, knife, sieve or colander, glasses or clear plastic cups (at least 5), water, soap, washing powder, lemon juice, vinegar, baking powder, bubble bath..... (any clear(ish) liquids to test) piece of paper.	
29th June		paper from last week, bar of soap, lemon slices.	
6th July		2 pieces of card, scissors, split pin, tape, compass (drawing one)	
13th July	Light and Lenses: Bending Beams	nothing	