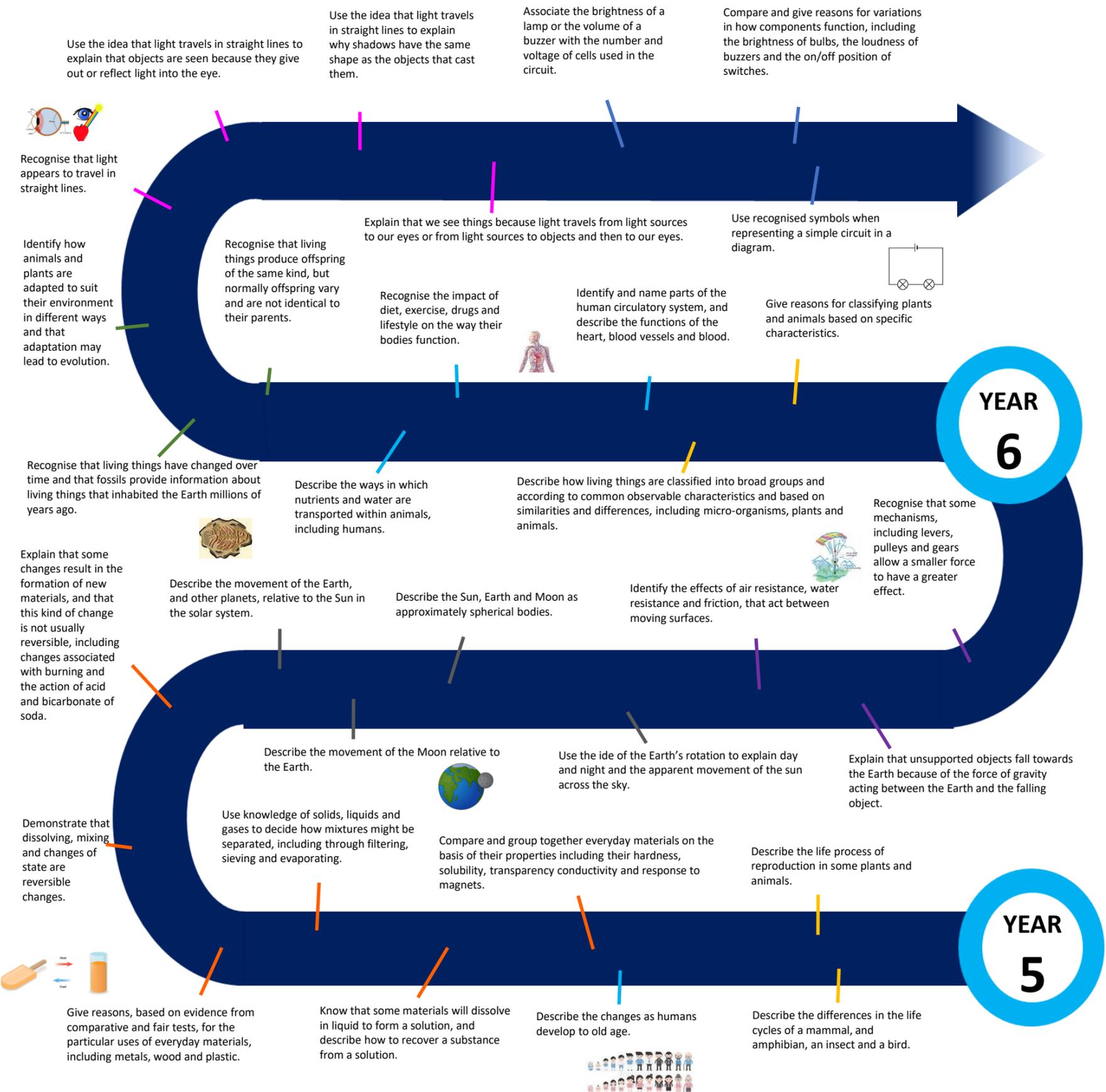
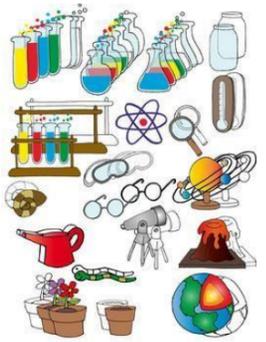


	Animals Including Humans	Plants	Living Things and Their Habitats	Evolution and Inheritance	Seasonal Changes	Forces	Light	Sound	Earth and Space	Electricity	Materials	Early learning Goals
Reception												X
Y1	X	X			X						X (Everyday Materials)	
Y2	X	X	X								X (Use of Everyday Materials)	
Y3	X	X				X (Forces and Magnets)	X				X (Rocks)	
Y4	X		X					X		X	X (States of Matter)	
Y5	X		X			X			X		X (Properties and Changes of Materials)	
Y6	X		X	X			X			X		

# Science Learning Journey



Recognise some common conductors and insulators, and associate metals with being good conductors.



Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.

Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.

Recognise that sounds get fainter as the distance from the sound source increases.



Find patterns between the pitch of a sound and features of the object that produced it.

Recognise that vibrations form sounds travel through a medium to the ear.



Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.

Identify common appliances that run on electricity.

Find patterns between the volume of a sound and the strength of the vibrations that produced it.

Identify how sounds are made, associating them with something vibrating.

Compare and group materials together, according to whether they are solids, liquids or gases.

Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.



Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.

Recognise that environments can change and that this can sometimes pose dangers to living things.

Identify the different types of teeth in humans and their simple functions.



Predict whether two magnets will attract or repel each other, depending on which poles are facing.

# YEAR 4

Describe magnets as having two poles.

Notice that some forces need contact between two objects, but magnetic forces can act at a distance.

Find patterns in the way that the size of shadows change.

Recognise that light from the sun can be dangerous and that there are ways to protect your eyes.



Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius.



Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.

Observe how magnets attract or repel each other and attract some materials and not others.

Compare how things move on different surfaces.

Recognise that shadows are formed when the light from a light source is blocked by an opaque object.

Recognise that soils are made from rocks and organic matter.

Notice that light is reflected from surfaces.

Identify and describe the functions of different parts of flowering plants.

Explore the requirements of plants for life and growth and how they vary plant to plant.

Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

Identify that humans and some other animals have skeletons and muscles for support, protection and movement.



Describe in simple terms how fossils are formed when things that have lived are trapped within rock.

# YEAR 3

Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.

Investigate the way in which water is transported within plants.

Identify that animals, including humans, need the right types and amount of nutrition, and they cannot make their own food: they get nutrition from what they eat.

Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.



Identify and name a variety of plants and animals in their habitats, including micro-habitats.



Notice that animals, including humans, have offspring which grow into adults.

Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.

Identify that most living things live in habitats to which they are suited.

Describe how different habitats provide for the basic needs of different kinds of animals and plants.



Describe and compare the structure of a variety of animals.

Identify and name a variety of everyday materials, including wood, plastic, metal, water and rock.

Compare and group together a variety of everyday materials on the basis of their simple physical properties.

Observe changes across the four seasons.



Explore and compare the differences between things that are living, dead and things that have never been alive.

Identify and name a variety of common animals that are carnivores, herbivores and omnivores.

Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.



Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.

Make comments about what they have heard and ask questions to clarify their understanding.

# YEAR 1

Identify and describe the basic structure of a variety of common flowering plants, including trees.

Identify and name a variety of common wild and garden plants.

Understand some important processes and changes in the natural world around them, including seasons and changing states of matter.

Explore the natural world around them, making observations and drawing pictures of animals and plants.

Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

# Reception

