

Year 3 Progression in Science

Biology			Chemistry	Physics	
Animals including humans	Living things and their habitats	Plants	Materials	Forces	How the world works
<p>Nutrition, Skeletons and muscles</p> <ul style="list-style-type: none"> I know that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat I know that humans and some other animals have skeletons and muscles for support, protection and movement. 		<p>Flowering plants</p> <ul style="list-style-type: none"> I know the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers I know the requirements of plants for life and growth (<i>air, light, water, nutrients from soil, and room to grow</i>) and how they vary from plant to plant I know the way in which water is transported within plants I know the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal 	<p>Rocks</p> <ul style="list-style-type: none"> I know how to compare and group together different kinds of rocks on the basis of their appearance and simple physical properties I know that fossils are formed when things that have lived are trapped within rock I know that soils are made from rocks and organic matter 	<p>Forces and Magnets</p> <ul style="list-style-type: none"> I know that some forces need contact between two objects, but magnetic forces can act at a distance I know magnets attract some materials and not others depending on the properties of the material I know magnets have two poles and will attract or repel each other, depending on which poles are facing 	<p>Light</p> <ul style="list-style-type: none"> I know that we need light in order to see things and that dark is the absence of light I know that that light is reflected from surfaces I know that light from the sun can be dangerous and that there are ways to protect my eyes I know that shadows are formed when the light from a light sources is blocked by an opaque object I know that the size of shadows change based on the object blocking the light from the distance from the light source

Nutrition, Skeltons and muscles

- I will know how many portions of food from different food groups we should eat in a day
- I will know that animals get nutrition from what they eat
- I will know that animals get nutrition from what they eat: food chains
- I will know that animals get nutrition from what they eat: food chains and food webs
- I will know the functions of the human skeleton
- I will know what endoskeletons and exoskeletons are
- I will know that humans and some other animals have skeletons and muscles for support, protection and movement
- I will know how muscles work
- I will know that humans and some other animals have skeletons and muscles for

Flowering plants

- I will know the requirements of plants for life and growth (*air, light, water, nutrients from soil, and room to grow*) and how they vary from plant to plant
- I will know the different parts of flowering plants: *roots, stem/trunk, leaves and flowers*
- I will know the function of roots and stem and the way in which water is transported within plants
- I will know the part that flowers play in the life cycle of flowering plants, *including seed dispersal*
- I will know the part that flowers play in the life cycle of flowering plants, *including pollination*
- I will know the part that flowers play in the life cycle of flowering plants, *including germination*

Rocks

- I will know how to compare and group together different kinds of rocks on the basis of their appearance
- I will know how to compare and group together different kinds of rocks on the basis of their physical properties
- I will know that fossils are formed when things that have lived are trapped within rock
- I will know that soils are made from rocks and organic matter

Forces and Magnets

- I will know that some forces need contact between two objects, but magnetic forces can act at a distance
- I will know how things move across different surfaces
- I will know how to compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet
- I will know two magnets will attract or repel each other, depending on which poles are facing
- I will know how the properties of magnets make them useful in everyday items

Light

- I will know that we need light in order to see things and that dark is the absence of light
- I will know that light is reflected from surfaces
- I will know that light from the sun can be dangerous and that there are ways to protect my eyes
- I will know that shadows are formed when the light from a light source is blocked by an opaque object
- I will know that the size of shadows change based on the object blocking the light from the light source

support, protection and movement					
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