## **Concept Map-Science**

# (Animals including humans)

## **Our World and** Beyond

things and their habita , plants, classification) (Living 1 Space,

### In Year 3 we will learn...

We get nutrition from the food we eat.

The skeleton gives the body its shape, allows movement and protects organs.

#### In Year 4 we will learn...

The digestive system starts in the mouth and finishes at the anus.

The different types of teeth are molars, canines and incisors.

In Year 5 we will learn... The human body changes over time.

In Year 3 we will learn...

The roots anchor the plant to the ground and absorbs nutrients.

The stem provides stability to the plant and transports nutrients.

The leaves use energy from the sun to make 'food' for the plant in a process called photosynthesis.

The flower attracts bees and insects.

A healthy plant needs water, light air & warmth.

#### In Year 4 we will learn...

Living things can be grouped into mammals, reptiles, amphibians, birds & fish.

The arrows in a food chain mean 'eaten by'

A herbivore eats vegetation only.

A carnivore eats meat only.

An omnivore eats meat and vegetation.

#### In Year 5 we will learn...

A life cycle is a series of changes in the life of an organism, including reproduction.

1 year = 365 and 1/4 days. The time it takes for the Earth to rotate around the Sun once.

The rotation of the Earth causes night and day.

### In Year 6 we will learn...

#### In Year 3 we will learn...

There are 3 main types of rock: igneous, sedimentary and metamorphic.

A fossil is made by an animal or plant being covered in layers of sediment. This is compacted over time.

In Year 4 we will learn... The main states of matter are gas, liquid and

solid.

The process of changing a liquid to a gas is called evaporation.

condensation.

### In Year 5 we will learn...

Some changes result in new materials being formed. A reversible change is a change which can be undone or reversed.

Living things have evolved over time.

The process of changing a gas to a liquid is called An irreversible change which can not be changed back again. A new material is formed.

### In Year 3 we will learn...

Magnets attract or repel. Magnets have two poles, a north and a south pole.

#### In Year 4 we will learn...

A simple circuit has to be closed to work.

An insulator is a material which doesn't allow electricity to pass through it.

A conductor is a material which does allow electricity to pass through it.

#### In Year 5 we will learn...

Gravity is a force which pulls objects towards each other.			In
Air resistance opposite dire	is a for ction c	rce that acts in the of moving objects.	A curren like elec
Slowing objects down which are moving through the air.			Diff
Water resistance is a force that acts in the			re
opposite directior objects down which	n of mo ch are r	oving objects. Slowing moving through water.	



## Materials (Rocks and fo of matter, state, evolu

## (Magnets, electricity, forces) Energy

Senses

(Light and seeing sound)



#### In Year 6 we will learn...

The circulatory system delivers oxygen and nutrients to cells and takes away waste.

Adaptation is the process of changing to become better suited to the environment.

Observable characteristics is an individual organisms traits such as size, height, eye colour, blood type.

There are 7 classifications of organism.

#### In Year 6 we will learn...

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t is the flow of electrical charge carriers trons. It flows from negative to positive points.

erent electrical components can be epresented by different symbols.

#### In Year 6 we will learn...

Light travels in straight lines.

We see an object because light has reflected off of that object and has entered our eyes.

The eye changes the light into electrical signals which are interpreted by the brain.