Animals including humans
Year 3 Autumn

Review:

What should I already know?

- I should already know about the importance of exercise and eating the right amounts of food and hygiene. (Year 2)
- • I should already know about the basic needs of animals including humans for survival – food, water, sleep, oxygen. (Year 2)

Essential knowledge

• I will learn that **muscles** help us move. They work in pairs to move the bones that they are attached to. They take it in turns to contract and relax.

• I will learn that **skeletons** have 3 important functions:
1) Protect the organs inside the body.
2) Allow movement.
3) Support the body and stop it from falling to the floor.

• I will learn that living things need nutrition to function but animals,
including humans, cannot make their own food and get nutrition from
what they eat.
• I will learn that animals, including humans, need a **balanced diet** of different nutrients to function.

Protein
Fats
Fibre
Carbohydrates
Minerals
Vitamins
Water

Vocabulary	
Biology	Biology is all about living things.
Working Scientifically	Is all about working like a scientist to answer scientific questions.

Function	Something's function is what job it does.
Muscle	Tissue in your body that moves part of your body
Skeleton	The skeleton is made up of bones inside your body.
Exoskeleton	The skeleton is on the outside of the animal's body.
Protect	Keep something safe.
Nutrition	Nutrition is inside food and helps keep you healthy and fuels your body.
Balanced Diet	Eating the right amount from all the food groups.
Nutrients	Can be found in food

Etymology	
Nutrition	comes from the Latin word "nutrire," meaning "to nourish.

Working Scientifically

Our enquiry focus:				
Observing Changes Over Time	**Pattern Seeking**	Identifying, Grouping & Classifying	Fair Testing	Research

Skills I will need:
• I will I will observe different foods and group them from my observations.
• I will observe and compare the movement of different animals.
• I will compare and contrast diets of different animals (including pets) through researching.

Rocks
Year 3 Autumn

Chemistry

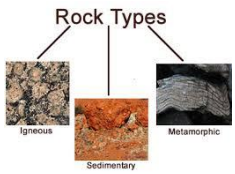
Review:

What should I already know?

- I know the names of different materials and their properties. (Year 1) .
- I can explain why a material might or might not be used for a specific job. (Year 2) .
- Materials can be changed by squashing, bending, twisting and stretching. (Year 2)

Essential knowledge

• I will be able to identify that there are different types of rocks, such as **igneous**, **metamorphic** and **sedimentary**.
• I will know that different types of rock have different **properties**. They can be used for different things because of this.
• I will learn that soils are made from rocks and **organic matter**.
• I will learn that **fossils** are formed through **fossilisation**. This is when things that have lived get trapped within a rock.



Working Scientifically

Vocabulary	
Chemistry ..	Chemistry is all about materials and how they change
Working Scientifically	Is all about working like a scientist to answer scientific questions.

Geologist	A scientist who studies rocks
Igneous	A rock formed from cooled magma.
Metamorphic rock	A rock formed from a change inn heat and pressure
Sedimentary Rock	A rock formed from layers of sediment.
Palaeontologist	A scientist who studies fossils
Fossil	The preserved remains of a living organism
Fossilisation	Fossilisation The process by which fossils are formed.
Organic matter	Living and dead plants and animals

Etymology	
Fossil	comes from the Latin word "fossilis," which means "dug up

Our enquiry focus:				
Observing Changes Over Time	**Pattern Seeking**	Identifying, Grouping & Classifying	Fair Testing	Research

Skills I will need:

• I will set up a simple fair test.
• I will record my data in a 2 column table to help me answer questions in a clear way.
• I will interpret my results to draw simple conclusions and raise further questions.
• I will observe to identify differences and similarities to scientific ideas and processes