

Biology

Animals Including Humans



Function



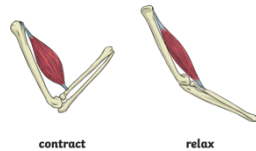
Year 3 - Autumn 1

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)

What will I learn?

- I will learn that **muscles** 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

Function	Something's function is what job it does.
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.
Nutrient Types (7)	Carbohydrates Proteins Fats Fibre Minerals Vitamins Water
Muscle	Tissue in your body that moves part of your body.
Skeleton	The skeleton is made up of bones inside your body.

How does our body function?



What is our enquiry type?

Observing Changes Over Time	Pattern Seeking	Identifying, Grouping & Classifying	Fair Testing	Research
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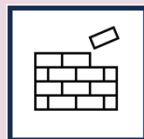
Working scientifically skills.

How will I be a scientist?

PLAN		PLAN		REVIEW	
Observe 	I will identify and group animals with and without skeletons. I will observe their movement.	Record 	I will research and compare the diets of animals and decide how to group them according to what they eat.	Evaluate 	I will research the health benefits of different foods and plan a balanced meal.

Chemistry

Rocks



Materials



Year 3 - Autumn 2

What should I already know?

- I know the names of different materials. (Year 1)
- I can explain why a material might or might not be used for a specific job. (Year 2)

What will I learn?

- I will be able to identify that different types of rocks 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.

Vocabulary

Materials	Materials are what things are made from.
Sediment	Natural material that is moved and dropped off in a new place. Example: sand can be moved by water or wind.
Erosion	When wind, water or ice wears away land.
Fossil	To examine into something.
Fossilisation	The process by which fossils are formed.
Organic matter	Living and dead plants and animals.
Palaeontologist	A scientist who studies fossils.



What is our enquiry type?

Observing Changes Over Time	Pattern Seeking	Identifying, Grouping & Classifying	Fair Testing	Research
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Mary Anning is one of the most famous palaeontologists. She was from England and discovered the 'Jurassic Coast'

Working scientifically skills.

How will I be a scientist?

PLAN		DO		REVIEW	
Set Up 	I will set up my enquiry to test what happens when rocks are rubbed together or placed in water.	Observe 	I will use a hand lens to identify and classify rocks according to their properties.	Report 	I will be able to explain what I have found and then ask further questions based on my new knowledge.