Year 3 Summer Term Science Knowledge Organiser

KEY QUESTIONS: How does our skeleton and muscle work? How do plants grow?

Nutrient	Found in (examples)	What it does/they do
carbohydrates	BUDGET CEAIN DESCRIPTION OF THE PROPERTY OF TH	provide energy
protein	TOO HUST	helps growth and repair
fibre	PREMIUM	helps you to digest the food that you have eaten
fats	PLAIN NUTS	provide energy
vitamins	PLAIN NUTS	keep you <mark>healthy</mark>
minerals		keep you <mark>healthy</mark>
water		moves nutrients around your body and helps to get rid of waste

Plant and animals, including humans vocabulary

Roots Carbon dioxide Movement Skeleton
Stem Oxygen Respiration Vertebrate

Leaves Sepals Sensitivity Invertebrate

Flowers Anther Growth Muscle

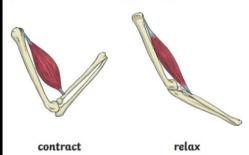
Nutrients Stigma Reproduction Tendon

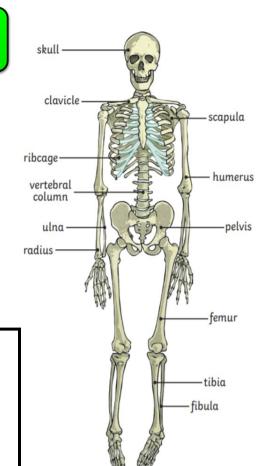
Photosynthesis Stamen Excretion Joints

Energy Petals Nutrition

THE SKELETON AND MUSCLE SYSTEM

Skeletal muscles work in pairs to move the bones they are attached to by taking turns to contract (get shorter) and relax (get longer).





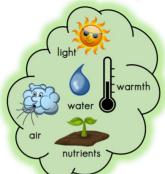
- Living things need food to grow and to be strong and healthy.
- · Plants can make their own food, but animals cannot.
- To stay healthy, humans need to exercise, eat a healthy diet and be hygienic.
- Animals, including humans, need food, water and air to stay alive.

Skeletons do three important jobs:

- · protect organs inside the body;
- allow movement;
- support the body and stop it from falling on the floor.



What does a plant need to grow?



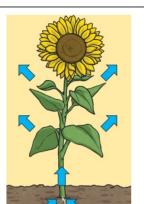
Did you know?

Small plants find it difficult to grow when larger plants have taken up the space and light around it. Think about it... When did you last see grass on a dense forest floor?

How Water Moves through a Plant

- The roots absorb water from the soil.
- 2. The stem transports water to the leaves.
- Water evaporates from the leaves.
- This evaporation causes more water to be sucked up the stem.

The water is sucked up the stem like water being sucked up through a straw.

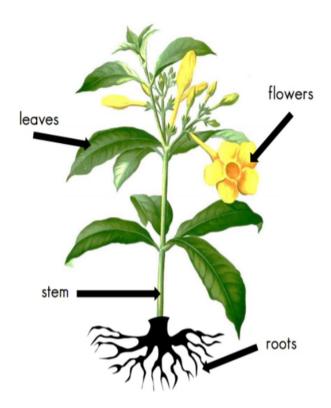


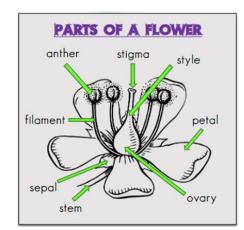
PLANT REPRODUCTION

Pollination - Pollen is carried by insects or blown by the wind from one flower to another. This process is called pollination.

Fertilisation - Pollen reaches the carpel of the new flower. Pollen then travels to the ovary where it fertilises egg cells (ovules) to make seeds. This process is called fertilisation.

Seed Dispersal - The seeds are scattered by animals or the wind. This process is called dispersal. Some of the seeds will grow into new plants.





Not all plants have flowers.
These non-flowering plants,
like ferns and mosses, grow
from spores instead of seeds.
All plants make their food
through photosynthesis.

