



Year 3/4 Science Knowledge  
Organiser:  
Animals Including Humans



Subject Specific Skills:

- identify 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.
- identify that humans and some other animals have skeletons and muscles for support, protection and movement.
- asking relevant questions and using different types of scientific enquiries to answer them
- setting up simple practical enquiries, comparative and fair tests
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

Prior Learning:

- Children looked at how to group animals including based on their diet.
- Children studied animals and their offspring and the basic needs that animals need to survive.

Key Knowledge:

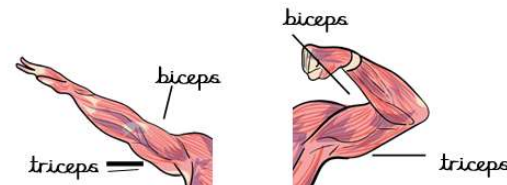
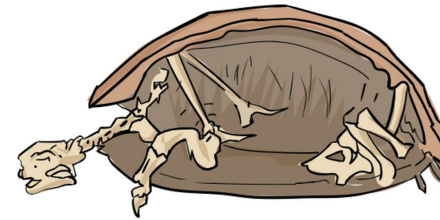
To **straighten** our arm, our **biceps relax** and our **triceps contract**. This straightens our arm. To **bend** our arm, our **biceps contract** and our **triceps relax**. This allows us to bend our arm at the elbow joint. When we **stretch** our muscles, they become **longer** and **thinner**. When we contract our muscles, they become shorter.

Key Vocabulary:

**nutrition** - food or nourishment  
**skeleton** - the framework of bones that supports the body of an animal  
**muscles** - a bundle of tissue in the body of an animal that can contract enabling movement  
**healthy** - good for your health  
**unhealthy** - not good for your health  
**diet** - the food that an animal eats  
**bones** - a solid part of the skeleton  
**vertebrate** - an animal with a backbone (spine)  
**invertebrate** - an animal without a backbone (spine)

Key Knowledge:

Humans need to eat a **healthy balanced diet**. Nutrition is when we eat food to **give us energy**. Adults and children need lots of energy to help them **keep moving** and keep their **bodies healthy**! Children also need food to **help them grow**. The Eatwell Plate shown below is a guide to help show us how much of each type of food **we should eat**.



■ fruit & veg      ■ dairy      ■ sugar & fats  
■ carbs & starches      ■ protein