

# Knowledge Organiser

**Topic: Animals including humans**

**Year: 2**

**Strand: Biology**

### What should I already know?

- There are five types of **vertebrates** (mammals, fish, reptiles, amphibians, birds)
- **Vertebrates** are animals that have a **backbone**.
- Some animals are suitable to be kept as pets but others are not.
- Some animals give birth to live young but others lay eggs.
- Doctors and nurses give us **medicine** when we are poorly.

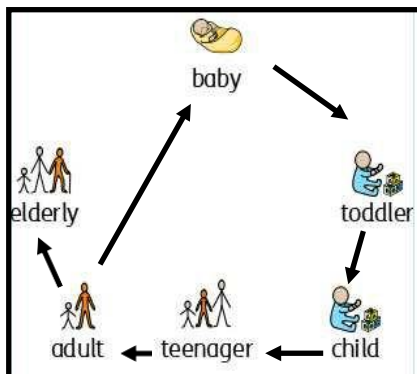
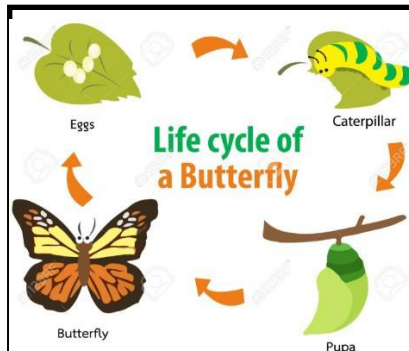
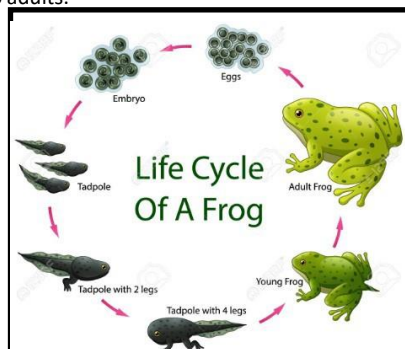
### Investigate!

- Match animals to their **offspring**
- Compare and contrast **offspring** to their parents.
- Compare the heights/hand spans of people at different stages of their lives.
- Order the stages in human life.
- Write an instruction text about how to look after **pets**.
- Investigate how animals are cared for in zoos and **farms**.
- Research animal charities, such as the RSPCA, and how they keep animals safe.
- Record a food diary and evaluate your diet.
- Collect information about favourite foods and present it in a **pictogram** or **bar chart**.
- Participate in a series of **exercises** and investigate how each **exercise**:
  - makes your body feel
  - affects your breathing
  - uses each of your **muscles**

### What will I know by the end of the unit?

What is a **life cycle**?

- A **life cycle** is the series of changes that an animal or plant passes through from the beginning of its life until its death.
- Animals, including humans, have **offspring** which grow into **adults**.





What do all animals need to **survive**?

All animals need water, air and food to **survive**.

What do humans need to be **healthy**?

- To keep **healthy**, humans need:
- to eat a **balanced diet** and **healthy food**
  - some **exercise** to keep their **muscles** and **bones healthy**
  - to take **medicines** that are given by doctors and nurses when feeling poorly
  - to keep good **hygiene** by washing regularly, having clean clothes, brushing teeth and hair.

### Vocabulary

backbone	the column of small linked <b>bones</b> down the middle of your back
balanced diet	a variety of food that you regularly eat
bar chart	a chart which uses bars to represent the value of something and comparing it to a different group 
bones	the hard parts inside your body which form your <b>skeleton</b>
disease	an illness which affects people, animals, or plants
exercise	When you <b>exercise</b> , you move your body energetically in order to get fit and to remain <b>healthy</b>
farm	an area of land used to produce crops or to breed animals and livestock
healthy	well and not suffering from any illness
hygiene	keeping yourself and your surroundings clean, especially in order to prevent illness or the spread of diseases
life cycle	the series of changes that an animal or plant passes through from the beginning of its life until its death
medicine	the treatment of illness and injuries by doctors and nurses
muscles	something inside your body which connects two bones and which you use when you make a movement
offspring	a person's children or an animal's young
pet	a tame animal kept in a household
pictogram	a simple drawing that represents something 
skeleton	the framework of <b>bones</b> in your body
survive	continue to exist

Question 1: Tick all the things that all animals need to survive:	Start of unit:	End of unit:
water		
exercise		
air		
food		

Question 2: How can humans keep healthy?	Start of unit:	End of unit:
exercise		
balanced diet		
medicine when given by a doctor or nurse		
look after animals		

Question 3: The word offspring means.....:	Start of unit:	End of unit:
a form of gymnastics		
to go on and then off		
a season of the year		
a person's children or an animal's young		

Question 4: Place these in order of how they happen in the life cycle of a human:	Start of unit:	End of unit:
toddler		
elderly		
adult		
baby		

Question 5: How can you maintain good personal hygiene?	Start of unit:	End of unit:
brush teeth		
wash regularly		
brush hair		
wear clean clothes		
all of the above		