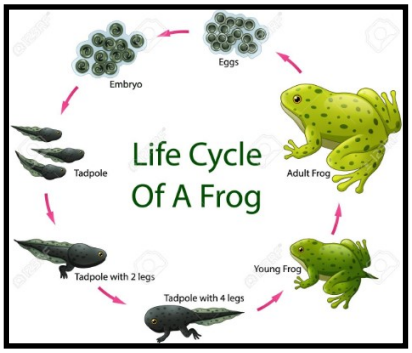
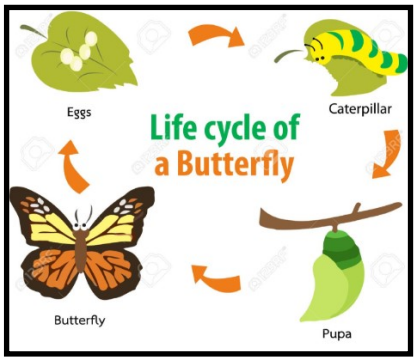
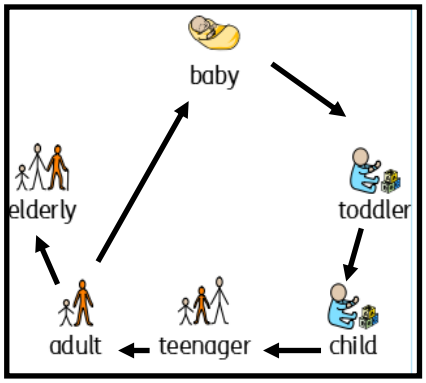
# Richmond Hill Primary School - Science

| 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.

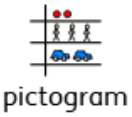
## What will I know by the end of the unit?

| | |
|---|---|
| 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.<br>• Animals, including humans, have **offspring** which grow into adults.<br>  <br>  <br>  |
| 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:<br>• to eat a **balanced diet** and **healthy** food<br>• some **exercise** to keep their **muscles** and **bones healthy**<br>• to take **medicines** that are given by doctors and nurses when feeling poorly<br>• to keep good **hygiene** by washing regularly, having clean clothes, brushing teeth and hair. |

## 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**

## Vocabulary

| | |
|---|---|
| backbone | the column of small linked **bones** 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<br> |
| bones | the hard parts inside your body which form your **skeleton** |
| disease | an illness which affects people, animals, or plants |
| exercise | When you **exercise**, you move your body energetically in order to get fit and to remain **healthy** |
| 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<br>  |
| skeleton | the framework of **bones** in your body |
| survive | continue to exist |

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| 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 | | |