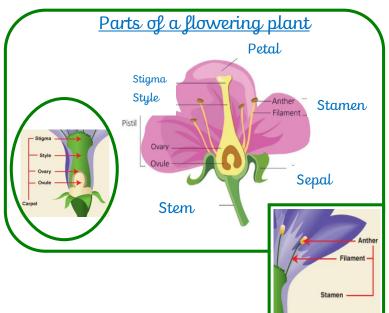
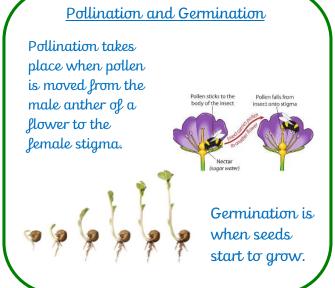
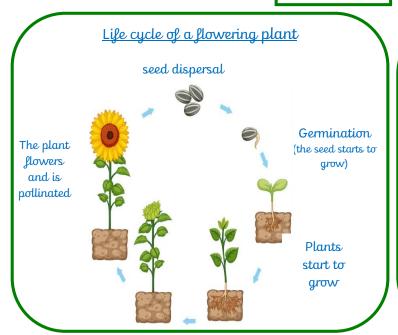
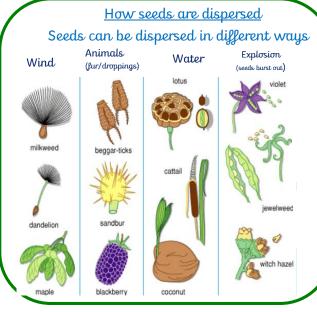


# Knowledge Organiser – Life cycles of Living things - Plants (Year 5)









### Key vocabulary - Plants

carpel

The female parts of the flower. Made of the stigma, style and ovary. The job of the style is to hold up the stigma. The stigma collects the pollen when a pollinator brushes by it. The ovary contains the ovules, which are the part of the flower that is fertilised and eventually becomes the new seed.

**fertilisation** 

When the male and female parts of the flower have mixed in order to make seeds for new plants.

life cycle

A life cycle is the different stages of

a living thing.

seed dispersal A method of moving the seeds away from the parent plant, so that the seeds have the best chance of

survival.

sepal

Leaf-like structures that protect the flowers before they open out.

stamen

The stamen is made up of the anther and the filament. The filament's job is is to hold up the anther. The job of the anther is to make pollen. The stamen is the male parts of

to ho

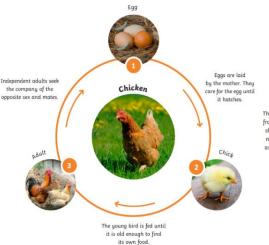
the flower.



# Knowledge Organiser - Life cycles of Living things - Animals (Year 5)

All animals, including humans, are born; they get older and bigger and some will go on to have children. In the end, all animals die. We call this a life cycle.

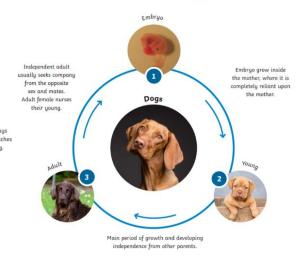
#### The Bird Life Cycle



## The Amphibian Life Cycle

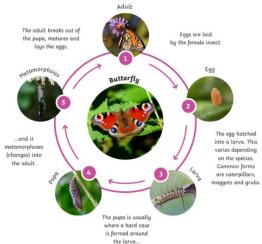


#### The Mammal Cycle



### The Insect Life Cycle

Complete Metamorphosis



# Key Vocabulary

Toddler - the period when a young child starts to walk and become more independent.

Teenager -humans between the age of 13 and 19. It is a time that humans mature quite rapidly.

Puberty - the name for the time when your body begins to develop and change as you move from childhood to adult.

Metamorphosis - a process some animals go through to become adults. It is a series of physical changes. Metamorphosis is especially common in insects.

Gestation – the period of time that a mammal carries her offspring, or babies, inside her body before giving birth.



# Knowledge Organiser – Rivers (Year 5)

#### **Key Vocabulary**

**Bank** The **bank** is the margin or side of a river.

**Condensation** Condensation consists of small drops of water

which form when warm water vapour or steam

touches a cold surface such as a window.

**Current** A **current** is a steady and continuous flowing

movement of some of the water in a river, lake

or sea.

**Delta** is an area of deposition found at the

mouth of the river that is triangular in shape

and hence named after the Greek letter.

**Erosion** Erosion is the process of wearing away and

removal of material mainly in the river channel

and along the bank.

**Estuary** An estuary is a drowned river valley, where the

river flows into the sea.

#### The Course of a River

#### **Upper Course**

Rain falling on high ground collects in channels and flows downwards forming a stream. As it flows quickly downhill it joins other streams, increasing in size and speed, forming a river. In its upper course, a river is shallow and narrow. It can erode soil and rock, often producing waterfalls and gorges. At this stage the river can cut deeper into the riverbed forming a V-shaped valley.

#### **Middle Course**

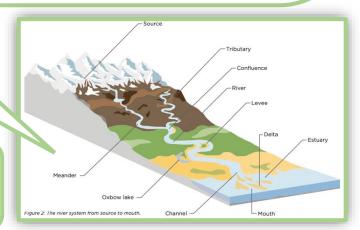
In the middle course, the river has more energy and a high volume of water. The erosion has now widened the channel and the river has deepened. At this section the river with meander and overtime oxbow lakes will form.

#### **Lower Course**

In the lower course, the river gets wider, deeper and faster but flows with less force due to the flat land. During this stage, the river becomes more prone to flooding and within urban areas some defences may be put up. This section will have floodplains, deltas and estuaries and the river ends.

A river's course from the source to the mouth.

Over 10% of the UK's freshwater and wetland species are threatened with extinction.



#### **Key Vocabulary**

**Evaporation Evaporation** is when a liquid changes to a vapor,

caused by an increase in temperature and/or a

decrease in pressure.

**Floodplains** Floodplains are the flat area bordering a river,

composed of sediment deposited during

flooding.

**Gorge** A **gorge** is a narrow steep-sided valley caused by

a waterfall eroding backwards, e.g. Niagara or

by a powerful vertical erosion sometimes

combined with uplifting landscapes, e.g. Grand

Canyon.

Meander A meander is a bend or loop in the river –

usually in the middle or lower course.

**Mouth** The **mouth** is where a river enters the river or a

lake, the river flow slows, loses its energy and

often deposition occurs.

**Source** The **source** is the starting point of a river, the

source of the highest tributary.

**Tributary Tributaries** are small river or streams, which

flow into a larger river.

#### Niagara Falls

 The Niagara Falls are located on the border of Ontario, Canada and New York, USA.

- It's made up of three waterfalls; the American Falls, the Bridal Veil Falls (smallest) and the Horseshoe Falls (largest).
- Together they combine to produce the highest flow rate of any waterfall on Earth.
- The Niagara River drains water from Lake Erie into Lake Ontario.
- At the current state of erosion, scientists believe that the Niagara Falls will be gone in around 50,000 years.
- The Falls are visited by around 30 million people every year.

## Waterfalls

Formation of a waterfall:
The soft rock erodes
more quickly,
undercutting the hard
rock.

The hard rock is left overhanding and so collapses.

The fallen rock crashes into a plunge pool causing more erosion.

### Boscastle (2004)



On 16<sup>th</sup> August 2004, 75mm of rain fell in just 2 hours – this is the same amount which normally falls throughout the whole of August. After 2 billion litres of water flowed in the rivers Valency and Jordan, they burst their banks.

The water quickly travelled through the village of Boscastle – gushing into houses, shops and pubs.

The water eroded river banks, damaged gardens and pavements.



