Year 5- Spring 2 - Life Cycles - What if life wasn't a cycle?			
Key Vocabulary		Prior knowledge	Sticky Knowledge
Metamorph osis	An abrupt and obvious change in the structure of an animal's body or behaviour.	In year 2 we:  - Identified and named a variety of common animals including fish, amphibians,	The Flower  The flower's main job is to create new seeds to grow new plants. There are lots of different parts of the flower.
Germination	When a seed has found the right conditions it breaks open and it sends out a root and a green shoot.	reptiles, birds and mammals In Year 4 we: - Recognised that living things can be grouped in a variety of ways	Brightly coloured to attract insects.  Sticky to catch the pollen grains.
Pollination	The transfer of pollen to a stigma to allow fertilisation.		Contains the pollen.
Gestation	The length of a pregnancy.		filament sepal ovary
Gestation period	The time period between conception until birth, during which fetal development takes place in the uterus.	Mammals Hair on body Mother produces milk for offspring  Reptiles  Scaly skin Born in the water Born on land As they grow older, they develop lungs	Holds the anther up.  Protects the flower when it starts to grow.  Where the seeds are formed.  Pollination and seed dispersal
Species	A group of similar organisms that are able to reproduce	so they can live on land.	Pollination is when <b>pollen</b> from the anther is <b>transferred</b> to <b>the stigma</b> . This can happen <b>by wind</b> or <b>by a pollinator</b> such as <b>a bee</b> or <b>a butterfly</b> . Once the pollen is transferred to the stigma, it travels down the style to <b>the ovary</b> where the seed grows.  Seeds are then dispersed and will grow in <b>different places</b> . Seeds can be dispersed by exploding plants, wind, water or animals.
Life cycle	The journey of changes that take place throughout the life of a living thing including birth, growing up and reproduction.	Movement Respiration Sensitivity	All plants and animals have a life cycle but they are different depending on the type of animal or plant. Here are some examples:  Frog life cycle  Butterfly life cycle  Dandelion life cycle
Offspring	The young born of living organism	All have feathers Most can fly and have wings.  Live in water Have fins and scales Use gills to take in gas  Reproduction Excretion	
Seed dispersal	The way a plant ensures its seeds are spread as far as possible from the parent plant, to give the seeds the best chance of Germination.	Nutrition  Knowledge and Assessment:  Describe the differences in the life cycles of a mammal, an amphibian, an	
Mammal	A particular type of animal.	insect and a bird  • Describe the changes as humans develop to old age.	Human life cycle  Strawberry life cycle
Amphibian	A cold-blooded vertebrate that spends some time on land but must breed and develop into an adult in water	Describe the life process of reproduction in some plants and animals	baby child teenager adult senior

#### More Sticky knowledge

### Reproduction in animals

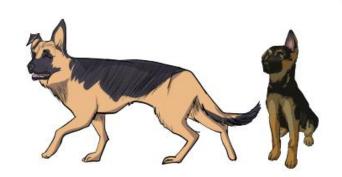
Reproduction is the process in which living things create offspring (children or babies). Offspring will have DNA from their parents and have similar characteristics.

### Mammals

A mammals offspring grows inside the mother's womb.

The mother provides nutrients and oxygen to the foetus (unborn baby). When a mammal carries a foetus **it is pregnant.** 

In order to create a baby, two mammal parents (a male and a female) are needed. A male sex cell, called a sperm, fertilises the female sex cell, called an egg.



## Birds and Reptiles

Birds and reptiles lay eggs.

The shell protects the baby and when it is ready they will break out of the shell.

Baby birds will be looked after by their mothers, whereas adult reptiles do not look after their babies.

# Amphibians and fish

Fish and most amphibians also lay eggs but in water. Eggs laid by amphibians are called spawn. Fish lay hundreds of eggs and when they hatch they look after themselves.

