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Topic: Living Things and their habitats	Year: 5	Strand: Biology	

What should I already know?

- recognise that living things can be grouped in a variety of ways
- explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
- recognise that environments can change and that this can sometimes pose dangers to living things.

What will I know by the end of the unit?

- describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- describe the life process of reproduction in some plants and animals

Vocabulary		
Anther	The part of a stamen which produces pollen.	
Chlorophyll	The green substance in a chloroplast which absorbs the light needed for photosynthesis.	
Dispersal	The carrying or spreading of plant seeds by the wind, or by birds, animals, etc	
Fertilisation	The fusion (or joining together) of a male gamete (reproductive cell) and a female gamete to form a zygote.	
Flower	The reproductive parts of a flowering plant, consisting of petals, sepals,ovary,style,stigma, stamen , anther etc.	
Filament	Part of the stamen which holds up the anther.	
Germination	The first stage in the growth of a seed or a spore.	
Gestation	The development of a mammal between fertilisation of the egg and the birth of the young animal.	
Life cycle	The complete pattern of life of an organism, including all its changes, from a certain stage in one generation to the same stage of the next generation.	
Petal	Brightly coloured and scented to attract insects.	
Photosynthesis	The process by which plants turn carbon dioxide and water into glucose and water by the action of light in the presence of chlorophyll.	
Pollen	Tint grains produced in the anthers of a flower, and contain male gametes (reproductive cells)	
Pollination	Process in which the pollen is transferred to the stigma of the same or another flower.	
Pupa or chrysalis	An insect at the stage between being a larva and a fully developed insect. At the pupa stage, the insect does not eat.	
Sepal	Usually green, protects the bud.	
Style	female part of the flower, joining the stigma to the ovary.	

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Ovary

Contains ovules which are fertilised. After fertilisation, an ovary becomes a fruit.

Kowinformation	Kovinformation	
Key information	Key mornation	
Mammals	Birds	
Mammals have a three stage life cycle:	Birds have a three stage life cycle:	
Stage 1 : The gestation period - the empryo	Stage 1: Eggs laid by the female. Parents	
grows inside the mother and is dependent on	care for the egg until natching.	
Iter.	Stage 2: Female and male reed the bird until	
Stage 2: The young manimals grow and	IL IS Independent. Stage 2: Adults mate to reproduce	
Stage 3: Adults mate to reproduce.	Stage S. Addits mate to reproduce.	
	Plants	
	Asexual reproduction: involves plants	
Amuhihiana ag fuag	producing an identical copy of	
Amphibians eg frog Many amphibians have a 5 stage life system	themselves. This can happen haturally in a	
Stage 1: Female lay eggs fertilized by male	able to produce bulbs(o g. deffedile &	
Stage 2: Tadpole breathes in water through	snowdrons) Others like potatoes produce	
aills.	tubers. While strawberries produce runners	
Stage 3: Grows fins and develops lungs.	either under or above the soil. Or artificially	
Stage 4: Tadpole grows front legs. Jumps from	by gardeners taking cuttings etc.	
water onto land.		
Stage 5: Starts to eat insects/plants.Takes 2-4	Sexual production in plants is cyclical,	
years to become an adult.	following this process:	
	Germination- The plant begins to grow from a	
Insects	seed. Roots form under the soil and a stem,	
Most insects undergo metamorphosis and	eaves and flower shots above the surface.	
have a life cycle of 4 stages:	Pollination - Pollen produced by the flower is	
Stage 1: Eggs laid by female insect.	carried by insects or blown by the wind to	
Stage 2: Eggs natch into iarvae.g. caterpiliars,	another flower.	
Stage 3: The pupe (bard coating) is formed	Fertilisation - The pollen reaches another	
Inside this the larva transforms	Dispersal - The seeds are scattered by	
Stage 4. The adults break out of the nunna	various means e.g. animals wind water	
and mature.	explosions.	

Useful Websites

https://www.bbc.co.uk/bitesize/clips/zt96sg8, https://www.bbc.co.uk/bitesize/topics/zgssgk7,

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