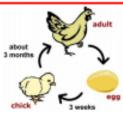
## **Key Knowledge**

Learn these key facts-key points in red

All living things go through these 7 life processes

MRS GREN Movement Respiration Sensitivity Growth Reproduction Excretion

· Chickens, like all birds, lay eggs. Inside an egg that has been amonths fertilised, a chick will grow and eventually hatch.



· A similarity of female birds, mammals most reptiles and some species of fish is that their eggs are fertilised inside the female.

Nutrition

Mammal life cycle



#### Sexual reproduction of a plant

- · The stamen is the male part of the flower which holds pollen
- . The carpel is the female part of the flower which contains eggs.
- · Pollen travels from the anthers of one flower to the stigma of another plant. This is called pollination. Plants rely on bees or other insects to carry their pollen while some pollen floats in the wind.
- · After pollination, the pollen grain and the egg join together, fertilisation.
- The fertilised egg will develop into a seed.

butterfly.

#### Asexual reproduction of a plant

Plant cuttings: Some plants stems can grow roots if they are planted in the correct conditions, such as geraniums. This allows for people to make lots of copies of the same plant.

Runners: Some plants, like strawberry plants, grow runners which have new plants on the end. These plants are an exact copy of the parent plant from which they have grown.

Bulbs: Other plants (onions, daffodils, garlic and tulips) produce bulbs which will grow if they are planted. The bulbs form under the soil. This helps the plant to survive during the winter months.

# Key Vocabulary

Understand these key words

n	Word	Definition
	behaviourist	someone who studies animal behaviour: how they learn from their environment, rather than emotions or feelings.
1	naturalist	an expert in, or a student of, natural history.
	seed dispersal	it is the way seeds get from the parent plant to a new place.
	stigma	the stigma is the area where pollen is received.
	stamen	the stamen is the part of the flower that produces pollen. There are two main parts of the stamen: the filament and anther.
	life processes	there are seven life processes that every living thing has in common.
	asexual reproduction	offspring obtain all of their information from just one individual (one parent).
5	pollination	the transference of pollen to a flower, or plant to allow fertilisation. Happens in sexual reproduction

the series of changes that an animal or plant

the part of a plant which attaches it to the

the development of a plant from a seed or

spore after a period of dormancy.

ground. It transfers water and nutrients to the

goes through from the beginning to the end of

life cycles

root

germination

its life.

rest of the plant.

### **Focus Scientists**



ane Goodall, a behaviourist, is best known for her 60 year research on social interactions of wild chimpanzees.

Stigma

Ovarv



Sir David Attenborough, a naturalist, who has dedicated his life to the study of natural history .

Frogs start off life as a mass of eggs called frogspawn. The eggs then hatch into tadpoles They then gradually grow a set of back legs, and front legs.

They lose their gills, and their tail shrinks.

A butterfly starts its life Butterfly Eventually, the

Both animals go though metamorphosis.

as an egg, which hatches into a caterpillar. caterpillar forms a chrysalis . Inside the chrysalis, it undergoes metamorphosis, before emerging as an adult