| | Year Six Science - Summer 2 - Evolution and in | | | |
|--------------------|--|--|--|--|
| | Key Vocabulary | | | |
| Inheritance | The passing of characteristics from a parent to its offspring. | | | |
| Variation | Changes between one thing and another. | | | |
| Characteristics | A feature that makes one thing different or similar to another. | | | |
| Adaptation | A change in a characteristic of an organism. These occur naturally all of the time. | | | |
| Evolution | Adaptations made in a species over a very long time. | | | |
| Natural selection | Adaptations to an environment and ever changing organisms living there match | | | |
| | better than other organisms – enabling those organisms to live long enough to | | | |
| | continue to reproduce. | | | |
| Selective breeding | Organisms from the same species chosen to breed together, to encourage | | | |
| | characteristics to be passed on to their offspring, e.g. dogs | | | |
| Survival of the | Relating to natural selection, this phrase refers to those in the species which are best | | | |
| fittest | suited (fittest) the environment in which they find themselves. | | | |
| Charles Darwin | A key scientist in the field of evolution and natural selection. | | | |
| Palaeontologist | A scientist who studies fossils | | | |
| Sediment | Layers of mud that turn to stone | | | |
| Trace fossils | Leave 'traces' of an animal from when it was alive behind such as a footprint | | | |
| Coprolite | Fossilised excrement that determine if the animal was a herbivore, carnivore or | | | |
| | omnivore | | | |

Inherited characteristics

These are things about the offspring (children) that are similar to the parents.

- Bart, Lisa and Maggie all have spikey hair, just like their dad.
- Lisa and Maggie have long eyelashes like their mum.
- Bart has no eyelashes like his dad.
- All of the family have three fingers and a thumb.



Labrador:

Extremely loyal, strong and caring. Easily trained.



Offspring = Labradoodle:

Extremely loyal, strong and caring. Easily trained, with

hypoallergenic fur – ideal for

people with pet fur allergies.

Selective breeding

Poodle:

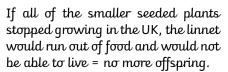
Hypoallergenic (allergy friendly), good stamina, good companion.

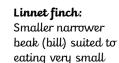


Bullfinch:

Fat strong beak (bill) suited to crushing big, tough seed shells.

Natural selection





Other finches (such as the bullfinch) with bigger, stronger beaks would still be able to eat plants which produce larger seeds.

This is natural selection – traits selected as advantageous following changes in the natural environment.





Ammonite



Crinoid



Fossils can be traced back to a specific point on the timeline.

- Fossils have been found to look very similar to some species we still see today, but they are dated at being from millions of years ago.
- Fossils provide a map of where species have come from.
- Fossils provide a record of slight adaptations and overall evolution of a species.

