

INHERITANCE & VARIATION

INHERITANCE



Parents pass characteristics to their offspring through **inheritance.**

EVIDENCE



When these two pigeons had a chick, it got its white feathers from one parent and its feathery feet from the other.





VARIATION





Within a species no two individuals are exactly the same. This is called **variation.**

EVIDENCE



These butterflies show variation in colour, wing pattern, size, and shape, even though they are all the same species



SELECTION & ADAPTATION

SELECTION



Individuals with characteristics more suited to their environment are more likely to survive and pass these successful characteristics to their offspring.



EVIDENCE



The leaf insects that look most like leaves are more likely to go unnoticed by predators and so survive long enough to reproduce, passing on to their young the same useful characteristics that helped them to survive.

ADAPTATION



Animals that survive long enough to reproduce may pass similar, though slightly different, characteristics to their offspring. These small changes add up and lead to bigger changes over time.



EVIDENCE



As the environment changed, horses gradually evolved over millions of years to be more adapted to their environment, from much smaller ancestors to the horses we know today.



SELECTION & ADAPTATION

ADAPTATION



All living things are adapted to their environment.







EVIDENCE The gills of Blue Sharks allow them to breathe oxygen in the water, and their long torpedo shaped body helps them to swim over long distances.

EVIDENCE



Sloths' long arms and curved feet help them to cling onto branches, and they can turn their heads three quarters of the way around, helping them to see predators from any direction.



EVIDENCE OF EVOLUTION

FOSSILS



Fossils can give us incredible information about life in the past.







This plesiosaur fossil has flippers, so it must have lived in water. The long, thin, sharp teeth helped it to eat soft-bodied and slippery prey, like fish. So we know something about its diet. Using fossils in this way helps us to build a picture of life in the past.

CHANGE OVER TIME



