



GILES BROOK SCHOOL

Knowledge Organiser

Science: Evolution and Adaptation

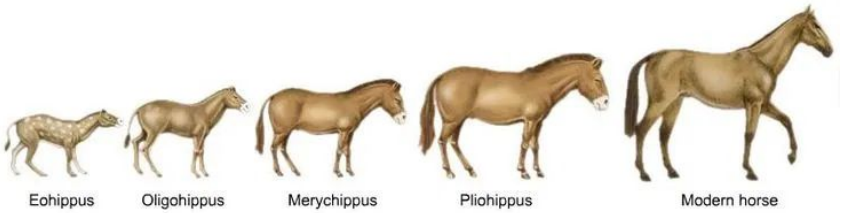
Useful websites
<https://www.bbc.co.uk/bitesize/topics/zvhhvcw>
<https://www.dkfindout.com/uk/science/famous-scientists/what-is-evolution/>

I already know:

- I know the life cycles of mammals, birds and amphibians.
- I know the characteristics of living things.
- I know that environment can change over time

Key Vocabulary	
Adaptation	Process of changing to suit an environment,
Reproduction	Process whereby living things create offspring.
Characteristics	The distinguishing features of a living thing.
Inherited	Characteristics we get from our parents through reproduction.
Acquired	Characteristics we get through practise.
Variation	The difference between living things in the same species.
D.N.A.	Deoxyribonucleic acid - contains all the information to create living things.
Mutation	Accidental changes to DNA.
Natural Selection	Beneficial characteristics being passed onto offspring.
Evolution	The process of living things changing over a long period of time.

Living things change over time. Scientists believe that horses have been evolving for over 50 million years!



Living things are all different. Through inherited and acquired characteristics, even animals in the same family can be very different .



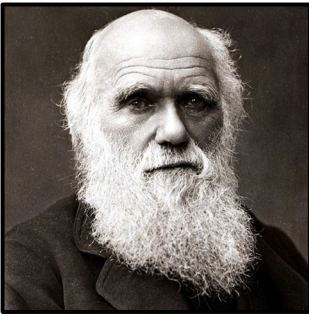
Living things have become well suited to their environments. Accidental mutations in DNA mean animals are more likely to survive .



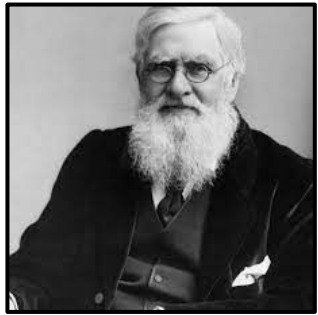
Evolution applies to all living things. Humans have changed over thousands of years and have many human ancestors.



Homo neanderthalensis and homo floresiensis.



Charles Darwin



Alfred Wallace