

Variation & Classification

1

Species and Variation

- Living things of the same type belong to the same species.
- Variation means differences within a species.
- A dog is one species, but there are many different types of dog.
- Collie, Terrier and Labrador are all one species, but there is a lot of variation between them.



2

Variation

- What variation is there in these domestic cats?



- Eye colour, size, colour and length of fur are all variations.

3

Human Variation

- Humans are a species, but there is a lot of variation within our species.
- Eye and skin colour, height, arm span and blood group are all variations.



4

What is a Species?

- Species often have very different characteristics. But some species are very similar, like horses and donkeys.
- It gets confusing, so we need a definition.

The definition we use is:

- A species is a group of organisms that can breed together and have offspring. The offspring can also breed.
- Horses and donkeys are different species. They can breed together, but their offspring (a mule) cannot breed. So, mules are not a species.



5

Characteristics

- Many characteristics are passed down from generation to generation.
- These characteristics are inherited.
- Skin colour, eye colour and hair colour are all inherited from our biological parents.



6

Inheriting Variation

But...

- We are not identical to either parent. We show variations.



Variation And Classification

Joacim Rocklöv



Variation And Classification:

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