

# 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

**National Research Council (U.S.)**



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**Living Processes: Animal Variation and Classification** Carol Ballard,2017-03-14 Find out how our classification system helps us make sense of the natural world This book explains how our animal classification system works and how scientists use it to identify and group animal species It explores evolution mutation and the variation between and within animal species and discusses how and why such variations have occurred Includes fieldwork investigations that show how to classify animals using various keys and fascinating fact boxes that offer in depth information on topics such as breeding An activity project shows students at Key Stage 3 how to classify the birds in their area The six books in the Living Processes series look at the processes all living organisms must carry out in order to stay alive From feeding and drinking through to breathing and reproducing it explores the differing ways in which organisms carry them out

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**Methods and Results** U.S. Coast and Geodetic Survey,1882

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**Publications** Dorothy Elizabeth Dixon,University of Oregon,1926

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