

# 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

**Ann Fullick**



## Variation And Classification:

**Variation and Classification** Melanie Waldron,2013-08-15 Our world is incredibly diverse but why are living things so different and how do we make sense of the vast range of life forms This book tackles the issues of variation how and why it occurs and classification looking at how we organize plants and animals into groups *Variation and Classification* Ann Fullick,2006-11-14 The Life Science In Depth series provides broad coverage of the Life Processes curriculum for Key Stage 3 science Each title presents detailed information on the main concepts and theories of each subject area as well as coverage of the most recent developments and possible advances in future research *Animal Variation and Classification* Richard Spilsbury,2010-01-15 Explains how our animal classification system works and looks at how scientists use it to identify and group animal species explores the variation between and within animal species and discusses how and why such variations have occurred

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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 *Annual Report* Queensland. Public Service Commissioner,1921 *Management's Handbook* Leon Pratt Alford,1924 **Methods and Results** U.S. Coast and Geodetic Survey,1882

**Plant Variation and Classification** Carol Ballard,2010-07-15 Explains how our plant classification system works and looks at how scientists use it to identify and group plant species The book also examines the variation between and within plants species and discusses how and why such variations have occurred

Studies of Variation in Insects Vernon Lyman Kellogg,Ruby Green Bell Smith,1904 *Computer Vision - ECCV 2018 Workshops* Laura Leal-Taixé,Stefan Roth,2019-01-22 The six volume set comprising the LNCS volumes 11129 11134 constitutes the refereed proceedings of the workshops that took place in conjunction with the 15th European Conference on Computer Vision ECCV 2018 held in Munich Germany in September 2018 43 workshops from 74 workshops proposals were selected for inclusion in the proceedings The workshop topics present a good orchestration of new trends and traditional issues built bridges into

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Mental Tests and the Classroom Teacher Virgil Everett Dickson,1923      *Studies of Arbacia Punctulata and Allies, and of Nonpentamerous Echini* Robert Tracy Jackson,1927      **Memoirs Read Before the Boston Society of Natural History** Boston Society of Natural History,1927      **Senate documents** ,1883      *Publications* Dorothy Elizabeth Dixon,University of Oregon,1926      *Special Bulletin* Pennsylvania. Department of Labor and Industry,1928

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