

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

D Keegan



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

Proceedings of 2012 3rd International Asia Conference on Industrial Engineering and Management Innovation (IEMI2012) Runliang Dou,2013-01-31 The purpose of the 2012 3rd International Asia Conference on industrial engineering and management innovation IEMI2012 is to bring together researchers engineers and practitioners interested in the application of informatics to industrial engineering and management innovation

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

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

Studies of Variation in Insects Vernon Lyman Kellogg,Ruby Green Bell Smith,1904

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

Memoirs Read Before the Boston Society of Natural History Boston Society of Natural History,1927

Management's Handbook Leon Pratt Alford,1924

Publications Dorothy Elizabeth Dixon,University of Oregon,1926

Standard Costs George Charter Harrison,1930

Business Statistics, 4th Edition J.K. Sharma,2018 The fourth edition of Business Statistics builds upon the easy to understand problem solving approach that was the hallmark of the previous editions Through detailed discussions on procedures that facilitate interpretation of data this book enables readers to make more

considered and informed business decisions Using tools of application and practice in a variety of solved examples and practice problems this book will sharpen the students understanding of basic statistical techniques Business Statistics 4e serves as a core textbook for students of management commerce and computer science studying business statistics for degrees in BBA MBA PGDBM BCom MCom CA ICWA and BE BTech MCA as well as for those preparing for professional and competitive examinations Key Features Learning Objectives clearly outline the learning outcomes of each chapter Case Studies illustrate a variety of business situations and suggest solutions to managerial issues using specific statistical techniques A Chapter Concepts Quiz at the end of each chapter reinforces students understanding of the basic principles and applications Conceptual Questions Self Practice Problems Review Self Practice Problems with Hint and Answers enable students after each chapter to practice and then evaluate themselves

Special Bulletin Pennsylvania. Department of Labor and Industry,1928 *Reprint and Circular Series of the National Research Council* ,1921 **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 neighboring fields and discuss fundamental technologies and novel applications *The Astrophysical Journal* ,1921 Letters to the Editor issued as Part 2 and separately paged from v 148 1967 Beginning in 2009 the Letters published only online **Reprint and Circular Series of the National Research Council** National Research Council (U.S.),1922 **American Civil Engineers' Handbook** Mansfield Merriman,1920

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