

Year 12 BIOLOGY Summary Notes

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Key

- Purple = module
- Green = inquiry question
- Orange = syllabus point
- Pink = blitzing biology headings
- Blue = blitzing biology subheadings
- Light orange = sub sub-headings

MODULE FIVE - Heredity

IQ1: How does reproduction ensure the continuity of a species?

5.1.1 - Explain the mechanisms of reproduction that ensure the continuity of a species

- Animals: advantages of external and internal fertilisation

Sexual Reproduction

Sexual reproduction typically involves **two** parent organisms, who each contribute genetic material to the offspring. Sexual reproduction results in more **genetic variation** in the offspring in comparison to asexual reproduction. The reproduction cycle is usually longer.

- Examples - Humans, Lions and Dolphins

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CO Houle



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Undergraduate Announcement University of Michigan--Dearborn,1997 **Cyber-Humans** Woodrow Barfield,2015-12-17 It is predicted that robots will surpass human intelligence within the next fifty years The ever increasing speed of advances in technology and neuroscience coupled with the creation of super computers and enhanced body parts and artificial limbs is paving the way for a merger of both human and machine Devices which were once worn on the body are now being implanted into the body and as a result a class of true cyborgs who are displaying a range of skills beyond those of normal humans beings are being created There are cyborgs which can see colour by hearing sound others have the ability to detect magnetic fields some are equipped with telephoto lenses to aid their vision or implanted computers to monitor their heart and some use thought to communicate with a computer or to manipulate a robotic arm This is not science fiction these are developments that are really happening now and will continue to develop in the future However a range of legal and policy questions has arisen alongside this rise of artificial intelligence *Cyber Humans* provides a deep and unique perspective on the technological future of humanity and describes how law and policy will be particularly relevant in creating a fair and equal society and protecting the liberties of different life forms which will emerge in the 21st century Dr Woodrow Woody Barfield previously headed up the Sensory Engineering Laboratory holding the position of Industrial and Systems Engineering Professor at the University of Washington His research revolves around the design and use of wearable computers and augmented reality systems and holds both JD and LL.M degrees in intellectual property law and policy He has published over 350 articles and major presentations in the areas of computer science engineering and law He currently lives in Chapel Hill NC USA *Resources in Education* ,1995-04 *Power and Policy in Quest of Law* Myres S. McDougal,W.M. Reisman,2024-09-02 **Cumulated Index Medicus** ,1976 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1973 *Australian Beetles Volume 3* Hermes E. Escalona,Adam Slipinski,2025-04 The Australian Beetles series represents a comprehensive treatment of the beetles of Australia a relatively under studied fauna that includes many unusual and unique evolutionary lineages found nowhere else on Earth Volume 3 Polyphaga Part 2 contains 12 chapters providing critical information and identification keys to the genera of the Australian beetle families included in superfamily Curculionoidea Nemomychidae Anthribidae Belidae Attelabidae Caridae Brentidae and Curculionidae and one subfamily of Cerambycidae Lamiinae Each chapter is richly illustrated with black and white photographs high resolution images and drawings The book also includes colour habitus figures for about 900 Australian beetle genera belonging to the families treated in this volume The chapters have been written by 11 contributors from Australia Poland and the USA

Wind Energy Explained James F. Manwell,Emmanuel Branlard,Jon G. McGowan,Bonnie Ram,2024-04-30 Authoritative and bestselling textbook detailing the many aspects of using wind as an energy source *Wind Energy Explained* provides complete and comprehensive coverage on the topic of wind energy starting with general concepts like the history of and

rationale for wind energy and continuing into specific technological components and applications along with the new recent developments in the field Divided into 16 chapters this edition includes up to date data diagrams and illustrations boasting an impressive 35% new material including new sections on metocean design conditions wind turbine design wind power plants and the electrical system fixed and floating offshore wind turbines project development permitting and environmental risks and benefits turbine installation operation and maintenance and high penetration wind energy systems and power to X Wind Energy Explained also includes information on Modern wind turbines covering the design and their many components such as the rotor drive train and generator Aerodynamics of wind energy covering one dimensional momentum theory the Betz limit and ideal horizontal axis wind turbine with wake rotation Environmental external design conditions such as wind waves currents tides salinity floating ice and many more Commonly used materials and components such as steel composites copper and concrete plus machinery elements such as shafts couplings bearings and gears Modern design methods including probabilistic design Environmental effects and mitigation strategies for wind project siting and the role of public engagement in the development process This book offers a complete examination of one of the most promising sources of renewable energy and is a great introduction to this cross disciplinary field for practicing engineers It may also be used as a textbook resource for university level courses in wind energy both introductory and advanced **Building Content Literacy**

Roberta Sejnost, Sharon M. Thiese, 2010-02-26 Presenting a snapshot of how adolescents learn Roberta L Sejnost and Sharon M Thiese offer research based best practices and strategies that enable teachers to increase student learning by more effectively integrating reading writing and critical thinking into their content instruction Building Content Literacy Strategies for the Adolescent Learner begins with a discussion of the challenges of teaching adolescents and follows with Strategies to foster acquisition of specialized and technical content vocabulary Specific processes and skills students may use to comprehend narrative and expository texts A variety of writing to learn strategies Speaking to learn strategies Finally the authors consider the challenges that face students in the age of technology and address the new literacies that can be utilized to engage students and increase learning Business Service Check List ,1959

Adopting the Song of Expression: An Mental Symphony within **12 4 Power Notes Biology**

In some sort of taken by screens and the ceaseless chatter of instantaneous interaction, the melodic beauty and mental symphony created by the prepared term often diminish into the backdrop, eclipsed by the persistent sound and interruptions that permeate our lives. But, set within the pages of **12 4 Power Notes Biology** an enchanting literary value filled with raw feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, that interesting masterpiece conducts visitors on an emotional trip, well unraveling the concealed tunes and profound affect resonating within each cautiously crafted phrase. Within the depths with this poignant analysis, we shall explore the book is central harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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