#### Biology Exam 1 Study Guide

#### Lecture 1 → Introduction to Biological Science

Tree of Life

- Domains
  - Eukarya → visible life
    - Split into animals and plants
    - Very small portion
  - Bacteria → single cell
    - Make up most of life's branches
    - Symbionts that evolved into mitochondria and chloroplasts were eubacteria
  - Archaea → original domain of life
    - More closely related to eukaryotes than eubacteria, first branch of life
    - Basic split between archaea and bacteria
- Candidate phyla radiation: Single species have been identified, each identifies an entire phylum which is yet to be understood - pioneer species (tree is dominated by new species that scientists have never seen before)

Tree of Life

Miner Section

- Species disappearing faster than can be recovered
- Eukaryotes and archaea are most <u>closely related</u> branches

Destruction and Mass Extinction

- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates/>75% flying insects lost in the past <50 years.</li>
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

Theory of Evolution

- Evolution: all life on earth evolved from a common ancestor, most properties within cells work in the same way, the change in gene distribution over time within a population
- Theory: a very well substantiated idea that explains many overlapping phenomena at once, wide-ranging, strongest. Not a hypothesis
- Darwin: species arise through random mutation and natural selection for fitness
- Evidence (fewer than 40% of Americans believe in evolution
  - fossil record shows conservation of homologous structures
  - Molecular proof: same DNA and RNA protein in cells
  - Homologous function in hands and fins → evolved similar mechanisms in appendages
- Scopes Monkey Trial
  - Scopes taught evolution illegally: resulted in Butler Act → forbid teaching evolution in TN
- Endosymbiont theory
  - Single composite cell of greater complexity could evolve from two or more separate simpler living cells in a symbiotic relationship

Year of Earth's History

- I Jan: earth formed 4.54 by a by acceleration of material from the solar nebula via gravitational collapse, conditions were incompatible with life, bombarded with asteroid-sized meteors for 800 million years
- 4 Mar: by 3.8 by a bombardment had slowed, Earth had cooled to lower the temps "compatible" with life

# **Biology 11 Bc Curriculum Study Guide**

**Hussin A.Rothana** 

#### **Biology 11 Bc Curriculum Study Guide:**

Curriculum in a New Key Ted T. Aoki, 2004-09-22 Ted T Aoki the most prominent curriculum scholar of his generation in Canada has influenced numerous scholars around the world Curriculum in a New Key brings together his work over a 30 year span gathered here under the themes of reconceptualizing curriculum language culture and curriculum and narrative Aoki s oeuvre is utterly unique a complex interdisciplinary configuration of phenomenology post structuralism and multiculturalism that is both theoretically and pedagogically sophisticated and speaks directly to teachers practicing and prospective Curriculum in a New Key The Collected Works of Ted T Aoki is an invaluable resource for graduate students professors and researchers in curriculum studies and for students faculty and scholars of education generally Science Education in Theory and Practice Ben Akpan, Teresa J. Kennedy, 2020-09-08 This book provides a collection of applicable learning theories and their applications to science teaching It presents a synthesis of historical theories while also providing practical implications for improvement of pedagogical practices aimed at advancing the field into the future The theoretical viewpoints included in this volume span cognitive and social human development address theories of learning and describe approaches to teaching and curriculum development The book presents and discusses humanistic behaviourist cognitivist and constructivist theories In addition it looks at other theories such as multiple intelligences theory systems thinking gender sexuality theory and indigenous knowledge systems Each chapter follows a reader motivated approach anchored on a narrative genre The book serves as a guide for those aiming to create optional learning experiences to prepare the next generation STEM workforce Chapter The Bildung Theory From von Humboldt to Klafki and Beyond is available open access under a Creative Commons Attribution 4 0 International License via link springer Resources in Education ,2001 Science Education in Canada: Policies, practices & perceptions F. Michael com Connelly, Robert Kirby Crocker, Heidi Kass, 1985 British Columbia Government Publications ,1996 Research in Education ,1974 Background Study ,1984 **Learning and Teaching in Clinical Contexts** Clare Delany, Elizabeth Molloy, 2018-07-13 Featuring the perspectives of more than 40 leading international researchers theorists and practitioners in clinical education Learning and Teaching in Clinical Contexts A Practical Guide provides a bridge between the theoretical aspects of clinical education and the delivery of practical teaching strategies Written by Clare Delany and Elizabeth Molloy each chapter weaves together education theory education strategies and illustrative learning and teaching case scenarios drawn from multidisciplinary clinical contexts The text supports clinicians and educators responsible for designing and delivering health professional education in clinical workplaces and clinicians undertaking continuing education in workplace teaching The book is divided into four sections each addressing a key aspect of the learner and educator experience Section 1 considers the learner's needs as they make key transitions from classroom to workplace or recent graduate to competent clinician Section 2 focuses on the influence of workplace contexts and how they can be used as positive catalysts to enhance

learning Section 3 highlights the role of workplace assessments as embedded processes to positively influence learning Section 4 provides an overview of the changing roles of the clinical educator and processes and models of professional development to build educational expertise Demonstrates the integrated nature of three key threads within the field of clinical education theory method and context Highlights theoretical frameworks cognitive psychological sociocultural experiential and ethical traditions and how they inform teaching decisions Incorporates case studies throughout to provide a context to learning and teaching in clinical education Includes practical tips from expert practitioners across different topics Includes an eBook with print purchase on evolve Learning From Others Diane Shorrocks-Taylor, Edgar W. Jenkins, 2005-12-20 Diane Shorrocks Taylor School of Education University of Leeds UK In September 1998 a conference was held at the University of Leeds entitled International comparisons of pupil performance issues and policy It was arranged by two groups within the School of Education at the University the newly formed Assessment and Evaluation Unit and the Centre for Studies in Science and Mathematics Education Thejoint interest in international comparisons of performance had itself arisen from earlier involvement in a follow up study of the 1995 TIMSS work in England reported in a later chapter in this book in which the TIMSS assessment outcomes were studied alongside the outcomes from the National Curriculum testing programme in England Some of the results of this investigation had proved both interesting and challenging so the decision was made to promote wider discussion of some key issues by inviting contributors from all over the world to a meeting the major aims of which were to promote an exploration of the theoretical foundations of international comparative studies of student performance the practical problems of carrying out such studies the appropriateness of the assessment models and approaches used in international comparisons the role of international comparative studies in raising standards of student performance and how international studies affect the shaping of national policy on education

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universo desde nuestro conocimiento actual