

# Ecology Constructed Response Practice #2

Name: \_\_\_\_\_

Period \_\_\_\_\_

## Seriously, We're Poisonous: Coloration Is An Honest Signal Of Toxicity In Poison Frogs

The conspicuous (noticeable) colors of poisonous frogs serve as a warning to predators: Don't eat me; I'm toxic. And a new study shows that in the case of at least one frog species, they aren't bluffing—the more conspicuous the color, the more poisonous the frog. Researchers Martine Maan (University of Groningen, the Netherlands) and Molly Cummings (University of Texas) studied strawberry poison dart frogs, which are native to Panama and come in more than a dozen different color patterns that vary from region to region....

...Maan and Cummings tested the toxicity levels of 10 differently colored frog populations. Then using known properties of birds' visual systems, the researchers estimated how each color pattern would look to a bird, an important frog predator. The results show that frogs with more conspicuous color patterns—as seen by birds—tended to be more toxic. The findings suggest that "birds can predict the toxicity of frogs by looking at their colors, possibly better than the frogs can themselves," Maan said....

Researcher Austin Peñner of the University of Alberta has noted that climate change and deforestation in the habitat of the strawberry poison dart frog could have "catastrophic effects" as the habitat required for the development of the tadpoles (young) of these frogs is extremely specific.

1. Explain why it is important to protect these poisonous frog species and the habitat that supports them.

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## Gray Wolves in the Rocky Mountains

Reintroduction of gray wolves in the northern Rocky Mountains has increased the ecological health of Yellowstone National Park in Wyoming. When all wolves in Yellowstone National Park were killed in 1920, elk soon ate trees and shrubs down to short stubs. Now that wolves are reducing elk numbers, many aspens and willow trees are taller and fuller and birds are returning to the trees to nest. The beaver population has grown from one colony to 12 colonies in 13 years. Spreading these benefits across the Rocky Mountain region would require increasing the present wolf population of 1,770 to 17,000.

In September 2012, wolves lost federal protection in Wyoming. In 2014, Wyoming closed its hunting season after meeting its quota of 26 wolves around Yellowstone and Grand Teton parks. The sizes of traps to catch wolves have been regulated to reduce the chance of trapping endangered species such as lynx and wolfwolves and the hunting season was shortened. Some ecologists wonder if removing the wolves from federal protection and allowing them to be hunted is a good ecological decision.

2. In the space below, construct a food chain using **three** organisms identified in the above passage.

# Biology 2013 Response Scoring Guide

**Victoria Yaneva, Matthias von Davier**

## Biology 2013 Response Scoring Guide:

Developing Assessments for the Next Generation Science Standards National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Board on Testing and Assessment, Committee on Developing Assessments of Science Proficiency in K-12, 2014-05-29 Assessments understood as tools for tracking what and how well students have learned play a critical role in the classroom. Developing Assessments for the Next Generation Science Standards develops an approach to science assessment to meet the vision of science education for the future as it has been elaborated in A Framework for K-12 Science Education Framework and Next Generation Science Standards NGSS. These documents are brand new and the changes they call for are barely under way but the new assessments will be needed as soon as states and districts begin the process of implementing the NGSS and changing their approach to science education. The new Framework and the NGSS are designed to guide educators in significantly altering the way K-12 science is taught. The Framework is aimed at making science education more closely resemble the way scientists actually work and think and making instruction reflect research on learning that demonstrates the importance of building coherent understandings over time. It structures science education around three dimensions the practices through which scientists and engineers do their work the key crosscutting concepts that cut across disciplines and the core ideas of the disciplines and argues that they should be interwoven in every aspect of science education building in sophistication as students progress through grades K-12. Developing Assessments for the Next Generation Science Standards recommends strategies for developing assessments that yield valid measures of student proficiency in science as described in the new Framework. This report reviews recent and current work in science assessment to determine which aspects of the Framework's vision can be assessed with available techniques and what additional research and development will be needed to support an assessment system that fully meets that vision. The report offers a systems approach to science assessment in which a range of assessment strategies are designed to answer different kinds of questions with appropriate degrees of specificity and provide results that complement one another. Developing Assessments for the Next Generation Science Standards makes the case that a science assessment system that meets the Framework's vision should consist of assessments designed to support classroom instruction, assessments designed to monitor science learning on a broader scale and indicators designed to track opportunity to learn. New standards for science education make clear that new modes of assessment designed to measure the integrated learning they promote are essential. The recommendations of this report will be key to making sure that the dramatic changes in curriculum and instruction signaled by Framework and the NGSS reduce inequities in science education and raise the level of science education for all students.

**Crossing the threshold** Andreas C. Göransson, 2021-02-18 The theory of evolution is considered the unifying theory of biology. An accurate understanding of evolution is vital both for the understanding of diverse topics in biology but also for societal issues such as antibiotic resistance or biodiversity. In contrast decades of

research in science education have revealed that students have difficulties to accurately understand evolutionary processes such as mutation and natural selection. The majority of this research relies on a conceptual framework of so called key concepts variation selection inheritance derived from scholarly descriptions of natural selection. Recent research suggests that non domain specific concepts such as randomness probability spatial and temporal scales so called threshold concepts are important for evolution understanding in addition to the key concepts. Thus many important elements of evolutionary theory are counter intuitive or lie outside direct perception. Hence representations such as visualizations models and simulations are considered to be important for teaching and learning evolution. While the importance of visualizations is generally acknowledged for science education less is known about how visual design can facilitate students understanding of threshold concepts such as random mutations or spatial scales. This thesis uses the Model of Educational Reconstruction MER as the guiding framework for exploring the significance of threshold concepts by analysing the conceptual content of students explanations and extant visualizations of natural selection. MER combines scientific content with teaching and learning perspectives for the analysis and design of learning environments. Content analysis of visualizations available online showed that most fail to fully represent the basic principles of natural selection variation selection and inheritance. Moreover the representational potential of visualizations was seldom used to represent threshold concepts such as randomness in origin of variation. Visualizations were also biased to animals as the context of evolution. Similarly upper secondary and tertiary students explanations of natural selection were seldom complete in terms of the basic principles and threshold concepts such as randomness were often lacking. Especially significant was the almost complete lack of randomness in upper secondary students explanations. In addition threshold concepts were context sensitive across the items used bacteria cheetah and salamander for example spatial scale and randomness was significantly more common in responses to the bacteria item compared to the cheetah and salamander items. Considering the results from these studies three interactive visualizations were developed evolution of antibiotic resistance and fur colouration in mice. The visualization design was conducted iteratively following a Design Based Research approach and evaluated in classroom settings in secondary and upper secondary Swedish schools. The results showed that visualizations targeting randomness and genetic level events such as mutations can guide students towards a more scientific conception of natural selection. However there were differences across the visualizations and student samples. In addition while students often inferred randomness from the visuals the results showed that integration of randomness into explanations of natural selection may be challenging. Hence future research should explore the role of guidance and reflection for students understanding of randomness. The thesis also discusses the role of students intuitive conceptions in relation to the use of interactive visualizations and how these preconceptions interact with the presented message. By using the theory of frame semantics framing effects and conceptual integration students issues of achieving an accurate understanding of evolution are discussed in relation to the theory of

conceptual change Implications for teaching and learning natural selection as well as visualization design for learning are also discussed Evolutionsteorin förs ofta fram som biologins förrenande teori Vikten av en korrekt och användbar evolutionsföreställning har dock ofta betonats inte minst för elevers föreställning om biologins olika delområden men också för att fatta beslut i samhällsfrågor som exempelvis antibiotikaresistens Många av de centrala delarna av evolutionsteorin är kontraintuitiva eller abstrakta och decennier av forskning har visat att elever har svårigheter att förstå evolutionens processer som mutation och naturligt urval Representationer som visualiseringar modeller och simuleringar är dock viktiga för att ge elever direkta erfarenheter av evolutionens processer även om vikten av visualiseringar är allmänt accepterad inom naturvetenskapsundervisning

Det mindre känneträckande är hur visualiseringars utformning specifikt bidrar till att utveckla elevernas förståelse av vetenskapliga fenomen som evolution. Dessutom har forskningen på elevernas evolutionsföreställningar till stor del fokuserat på s.kallade nyckelbegrepp som variation, selektion och arv som har lett till vetenskapliga beskrivningar av evolutionsteorin. Dessa begrepp antas vara användbara men också tillräckliga för elevernas evolutionsföreställningar. Dock har vikten av icke domänspecifika begrepp kopplade till evolutionsteorin som slump, sannolikhet, spatial och temporala skalar och s.kallade teknologibegrepp inte undersökts i någon huvudsak. Den här avhandlingen använder Model of Educational Reconstruction för att utforska betydelsen av teknologibegreppen för evolutionsföreställningar. Med utgångspunkt i den vetenskapliga beskrivningen och historiken undersöks förstkomsten av teknologibegrepp i befintliga visualiseringar för lärande samt elevernas förklaringar för att formulera designprinciper för interaktiva visualiseringar av evolution. Dessutom beskrivs utvecklingen av ett antal interaktiva visualiseringar samt undersökningar av deras potentiella användning i klassrumsmiljöer. Avhandlingen diskuterar även betydelsen av elevernas intuitiva förståelse för lösningar i relation till användandet av interaktiva visualiseringar och hur dessa förståelse och lösningar interagerar med det presenterade budskapet. Genom användning av ramsemantisk teori inklusive framingeffekter och blendteori diskuteras elevernas svårigheter och utveckling av en vetenskaplig evolutionsföreställning i relation till tidigare teorier om begreppsförändringar. Konsekvenserna av ramsemantisk teori och framingeffekter i visuella medier diskuteras även i relation till visuell design för lärande.

5 Steps to a 5: 500 AP Biology Questions to Know by Test Day, Third Edition Mina Lebitz, 2019-02-21

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*Management of Animal Care and Use Programs in Research, Education, and Testing* Robert H. Weichbrod, Gail A. (Heidbrink) Thompson, John N. Norton, 2017-09-07

AAP Prose Award Finalist 2018-19

Management of Animal Care and Use

Programs in Research Education and Testing Second Edition is the extensively expanded revision of the popular Management of Laboratory Animal Care and Use Programs book published earlier this century. Following in the footsteps of the first edition this revision serves as a first line management resource providing for strong advocacy for advancing quality animal welfare and science worldwide and continues as a valuable seminal reference for those engaged in all types of programs involving animal care and use. The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current breadth and depth of the field with applicability to an international audience. Readers are provided with the latest information and resource and reference material from authors who are noted experts in their field. The book emphasizes the importance of developing a collaborative culture of care within an animal care and use program and provides information about how behavioral management through animal training can play an integral role in a veterinary health program. Provides a new section on Environment and Housing containing chapters that focus on management considerations of housing and enrichment delineated by species. Expands coverage of regulatory oversight and compliance assessment and assurance issues and processes including a greater discussion of globalization and harmonizing cultural and regulatory issues. Includes more in depth treatment throughout the book of critical topics in program management physical plant animal health and husbandry. Biomedical research using animals requires administrators and managers who are knowledgeable and highly skilled. They must adapt to the complexity of rapidly changing technologies balance research goals with a thorough understanding of regulatory requirements and guidelines and know how to work with a multi generational multi cultural workforce. This book is the ideal resource for these professionals. It also serves as an indispensable resource text for certification exams and credentialing boards for a multitude of professional societies. Co publishers on the second edition are ACLAM American College of Laboratory Animal Medicine ECLAM European College of Laboratory Animal Medicine IACLAM International Colleges of Laboratory Animal Medicine JCLAM Japanese College of Laboratory Animal Medicine KCLAM Korean College of Laboratory Animal Medicine CALAS Canadian Association of Laboratory Animal Medicine LAMA Laboratory Animal Management Association and IAT Institute of Animal Technology.

*McGraw-Hill Education 500 AP Biology Questions to Know by Test Day, 2nd edition* Mina Lebitz, 2015-10-30 Get ready for your AP Biology exam with this straightforward easy to follow study guide updated for all the latest exam changes. 5 Steps to a 5 500 AP Biology Questions to Know by Test Day features an effective 5 step plan to guide your preparation program and help you build the skills knowledge and test taking confidence you need to succeed. This fully revised edition covers the latest course syllabus and matches the latest exam. The book provides access to McGraw Hill Education's interactive AP Planner app which will enable you to receive a customizable study schedule on your mobile device. Bonus app features daily practice assignment notifications based on the exam date and the amount of material you wish to cover. 2 complete practice AP Biology exams 3 separate plans to fit your study style

Advancing Natural Language Processing in Educational Assessment

Victoria Yaneva, Matthias von Davier, 2023-06-05 Advancing Natural Language Processing in Educational Assessment examines the use of natural language technology in educational testing measurement and assessment Recent developments in natural language processing NLP have enabled large scale educational applications though scholars and professionals may lack a shared understanding of the strengths and limitations of NLP in assessment as well as the challenges that testing organizations face in implementation This first of its kind book provides evidence based practices for the use of NLP based approaches to automated text and speech scoring language proficiency assessment technology assisted item generation gamification learner feedback and beyond Spanning historical context validity and fairness issues emerging technologies and implications for feedback and personalization these chapters represent the most robust treatment yet about NLP for education measurement researchers psychometricians testing professionals and policymakers The Open Access version of this book available at [www.taylorfrancis.com](http://www.taylorfrancis.com) has been made available under a Creative Commons Attribution NonCommercial No Derivatives 4.0 license

[Social Work with Sex Offenders](#) Malcolm Cowburn, Steve Myers, 2016-04-27

This topical book engages with a wide range of issues related to social work practice with people who have sexually offended It addresses the emotional impacts of facing the sex offender the importance of values and ethics in practice and reviews popular and academic understandings of sex offenders and sex crimes Its accessible style and use of practice based learning exercises will help readers to reflect on theory practice and developing emotional resilience

**Educational Principles and Practice in Veterinary Medicine** Katherine Fogelberg, 2024-01-04 Educational Principles and Practice in Veterinary Medicine An in depth veterinary centered reference to the discipline of education Educational Principles and Practice in Veterinary Medicine provides a detailed comprehensive reference to the discipline of education both broadly and as it relates to veterinary medicine Written for veterinary faculty members instructors and educators in other health professions the book offers an in depth examination of knowledge and skills related to veterinary education It discusses educational theory how people learn the structure and function of higher education and educational technologies among many other topics of importance Sections cover educational leadership professional development for faculty research methods and study design administration outcomes and assessment accreditation and the roles of the professional program instructor Educational

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[Handbook of Posttraumatic Stress](#) Rosemary Ricciardelli, Stephen Bornstein, Alan Hall, R. Nicholas

Carleton,2021-09-30 The Handbook of Posttraumatic Stress provides a comprehensive review of posttraumatic stress in its multiple dimensions analyzing causation and epidemiology through prevention and treatment Written by a diverse group of scholars practitioners and advocates the chapters in this book seek to understand the history the politics and the biological psychological and social processes underlying posttraumatic stress disorder PTSD Featuring studies that focus on some of the most seriously affected occupational groups the text examines topics such as how individuals experience PTSD in different work settings and the complexities of diagnosis treatment and recovery for those workers and their families Together the contributions provide an in depth examination of the current understood causes impacts and treatments of and for posttraumatic stress mobilizing academic administrative and clinical knowledge and lived experience to inform ongoing and future work in the field Drawing from range of different topics fields of study and research methods this text will appeal to readers across medical mental health and academic disciplines *Biology 12* British Columbia. Ministry of

Education,1995 **Lovejoy's College Guide** ,1993 **Casarett & Doull's Toxicology: The Basic Science of Poisons**,

**9th Edition** Curtis D. Klaassen,2018-11-23 Toxicology s gold standard text completely updated to reflect the latest breakthroughs and discoveries A Doody s Core Title for 2024 2021 Casarett Doull s Toxicology The Basic Science of Poisons Ninth Edition equips you with an unsurpassed understanding of modern toxicology including the key principles concepts mechanisms chemical specific toxicity and modes of thought that are the foundation of the discipline This trusted classic not only delivers a comprehensive review of the essential components of toxicology it offers the most up to date revealing and in depth look at the systemic responses of toxic substance available anywhere Casarett Doull s Toxicology The Basic Science of Poisons Ninth Edition is logically divided into seven sections General Principles of Toxicology Disposition of Toxicants Non Organ Directed Toxicity Target Organ Toxicity Toxic Agents Environmental Toxicology Applications of Toxicology Many new contributors capture the progress made in toxicology over the past few years This edition is markedly updated from the previous edition with more than one third of the chapters authored by scientists who have not made previous contributions to the book Sharing their expertise they deliver dynamic new coverage of the importance of apoptosis autophagy cytokines growth factors oncogenes cell cycling receptors gene regulation protective mechanisms repair mechanisms transcription factors signaling pathways transgenic mice knock out mice humanized mice polymorphisms microarray technology second generation sequencing genomics proteomics epigenetics exposome microbiota read across adverse outcome pathways high content screening computational toxicology innovative test methods and organ on a chip in understanding the mechanisms of toxicity and the regulation of chemicals A true essential If you are in need of an up to date all in one overview of the biomedical and environmental aspects of toxicology written by experts and presented in full color your search ends here

*Developing and Validating Test Items* Thomas M. Haladyna,Michael C. Rodriguez,2013-07-18 Since test items are the building blocks of any test learning how to develop and validate test items has always been critical to the teaching learning

process As they grow in importance and use testing programs increasingly supplement the use of selected response multiple choice items with constructed response formats This trend is expected to continue As a result a new item writing book is needed one that provides comprehensive coverage of both types of items and of the validity theory underlying them This book is an outgrowth of the author s previous book Developing and Validating Multiple Choice Test Items 3e Haladyna 2004 That book achieved distinction as the leading source of guidance on creating and validating selected response test items Like its predecessor the content of this new book is based on both an extensive review of the literature and on its author s long experience in the testing field It is very timely in this era of burgeoning testing programs especially when these items are delivered in a computer based environment Key features include Comprehensive and Flexible No other book so thoroughly covers the field of test item development and its various applications Focus on Validity Validity the most important consideration in testing is stressed throughout and is based on the Standards for Educational and Psychological Testing currently under revision by AERA APA and NCME Illustrative Examples The book presents various selected and constructed response formats and uses many examples to illustrate correct and incorrect ways of writing items Strategies for training item writers and developing large numbers of items using algorithms and other item generating methods are also presented Based on Theory and Research A comprehensive review and synthesis of existing research runs throughout the book and complements the expertise of its authors

**Animal Breeding Abstracts ,1986      Title 40 Protection of Environment**

**Parts 790 to 999 (Revised as of July 1, 2013)** Office of The Federal Register, Enhanced by IntraWEB, LLC,2014-07 40

CFR Protection of Environment      *Williams Hematology, 10th Edition* Kenneth Kaushansky,Marshall A. Lichtman,Josef T. Prchal,Marcel M. Levi,Linda J. Burns,2021-01-14 The landmark text that has guided generations of hematologists and related practitioners updated with the latest research findings and improved format and presentation Long revered for its comprehensiveness and extraordinary depth of detail Williams Hematology provides essential coverage of the origins pathophysiological mechanisms and management of benign and malignant disorders of blood and marrow cells and coagulation proteins The text contains a wealth of basic science and translational pathophysiology for optimal lifelong learning Experts in research and clinical hematology the editors are known worldwide for their contributions to the field This new edition contains everything that has made Williams Hematology the go to resource for decades and has been updated with new chapters and critical new research into the molecular mechanisms responsible for hematological disorders and the impact on diagnosis and treatment And the new format enables you to access each chapter via content modules covering key topics with summaries infographics and cases all linked to review questions for self assessment The full color presentation integrates images of blood and tissue findings where they are cited in the text NEW TO THIS EDITION Updated and revised content reflecting the latest research and developments Convenient format that streamlines the learning process and improves retention Additional chapters added on Immune Checkpoint Inhibitors Immune Cell Therapy Chimeric Antigen

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