

Biology web cd activity 13e answer key

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What are similarities seen in certain species that result from common ancestry called? evolution. homology, in biology, similarity of the structure, physiology, or development of different species of organisms based upon their descent from a common evolutionary ancestor.

Would a jellyfish be likely to leave behind a fossil? Fossil jellyfish are rare because they have no bones or other hard parts to turn into fossils. Instead, scientists have to look for so-called "soft fossils," when organisms are quickly buried in sediment, leaving an imprint in the rock.

What is similarity resulting from common ancestry called quizlet? Homology is similarity resulting from common ancestry. Homologous structures are anatomical resemblances that represent variations on a structural theme present in a common ancestor.

What is a similarity in characters that results from common ancestry called? Nevertheless, the current most common definition of homology is similarity due to common ancestry and mainly refers to the species level, implying a phylogenetic context (e.g., Darwin 1859; Wake et al.

Do jellyfish live longer than dinosaurs? Even so, scientists have uncovered evidence these creatures have been living in our Ocean for at least 500 million years! In fact, it's likely that their lineage goes back even as far as 700 million years – possibly even longer. That makes them almost three times older than the first known dinosaurs.

Why shouldn't you pick up a jellyfish? Jellyfish sting their prey with their tentacles, releasing a venom that paralyzes their targets. Jellyfish don't go after

humans, but someone who swims up against or touches one — or even steps on a dead one — can be stung all the same.

Which organism is most likely to fossilize? Organisms with hard parts (bones, shells) have a good chance of fossilization while soft-bodied organisms are rarely fossilized. The enamel and dentin of teeth are harder than bone and as a result, teeth are more likely to be fossilized than other parts of a vertebrate.

What is similarity resulting from common ancestry known as ___? Similarity Resulting From Common Ancestry Is Known as Homology. The existence of similar traits and features among different species can provide evidence for common ancestry. Homology refers to the similarities in traits and features between organisms that are inherited from a common ancestor.

What is a similarity that occurs due to a common ancestor called? These likenesses in structure, called homologies, are the result of descent from a common ancestor. In related species, the same anatomical features evolved into distinct forms as they were used in different environments or for different functions.

What character similarity results from shared common ancestry is termed? The term that is used to describe similar characteristics among different groups of organisms that share common ancestry is HOMOLOGY. Homology results from having a single, common ancestor.

How is convergent evolution best explained? 'In convergent evolution, two organisms look or behave in a very similar way, even though they're only distantly related. This means they've independently evolved those similarities rather than inheriting them from a common ancestor. '

Is homoplasy convergent evolution? Homoplasy is the development of organs or other bodily structures within different species, which resemble each other and have the same functions, but did not have a common ancestral origin. These organs arise via convergent evolution and are thus analogous, not homologous to each other.

Which of the following pairs are the best examples of homologous structures? The correct answer is (B) Bat wing and human hand. Homologous structures are similar structures that arise through divergent evolution from a common evolutionary

ancestor.

What is similarity resulting from common ancestry? In biology, homology is similarity due to shared ancestry between a pair of structures or genes in different taxa.

What is it called when species share a common ancestor? Common descent is an effect of speciation, in which multiple species derive from a single ancestral population. The more recent the ancestral population two species have in common, the more closely are they related.

What is a similarity that occurs due to a common ancestor called? These likenesses in structure, called homologies, are the result of descent from a common ancestor. In related species, the same anatomical features evolved into distinct forms as they were used in different environments or for different functions.

What are similarities between species caused by having a common ancestor? Homologous features If two or more species share a unique physical feature, such as a complex bone structure or a body plan, they may all have inherited this feature from a common ancestor. Physical features shared due to evolutionary history (a common ancestor) are said to be homologous.

Solving Statics Problems in MATLAB: A Guide

Statics is the study of forces acting on objects that are at rest. Solving statics problems can be complex, but MATLAB can greatly simplify the process. Brian Harper's "Engineering Mechanics: Statics, 6th Edition" by Meriam and Kraige with Engineering MatLab provides a comprehensive guide to using MATLAB for solving statics problems.

Question 1: How to calculate the reactions at supports of a beam?

Answer: Use the equations of equilibrium to solve for the reactions. MATLAB can be used to create matrices and solve the equations simultaneously.

Question 2: How to find the centroid of a geometric shape?

Answer: Use the integral function in MATLAB to calculate the area and centroidal coordinates of the shape.

Question 3: How to analyze a truss structure?

Answer: Use the method of joints or sections to determine the forces in each member of the truss. MATLAB can be used to create the equations of equilibrium and solve for the unknown forces.

Question 4: How to calculate the moment of inertia of a cross-sectional area?

Answer: Use the intquad function in MATLAB to calculate the integral that defines the moment of inertia.

Question 5: How to solve problems involving friction?

Answer: Use the equations of motion and friction to determine the forces acting on the object. MATLAB can be used to solve the equations and find the unknown variables.

By understanding these concepts, engineers can leverage MATLAB to efficiently solve statics problems. Brian Harper's guide provides step-by-step instructions and numerous examples to help engineers master this valuable tool.

Trouble with Lichen: A Deep Dive into John Wyndham's Classic Novel

John Wyndham's "Trouble with Lichen," first published in 1951, is a gripping and thought-provoking novel that explores the consequences of a seemingly harmless lichen species gone awry. This article delves into the novel's key questions and provides insightful answers, shedding light on its timeless themes.

1. What is the "trouble with lichen"? The trouble lies in the discovery of a genetically modified lichen known as TL-5, which rapidly engulfs vast tracts of land in a thick, impenetrable carpet. Initially prized for its potential to combat erosion and reclaim wastelands, TL-5 proves to have a sinister side.

2. How does TL-5 impact the natural environment? TL-5's rampant growth smothers vegetation, depletes soil nutrients, and disrupts entire ecosystems. The

lichen's all-consuming nature threatens the survival of other plant and animal species, creating a desolate and barren landscape.

3. What are the societal implications of TL-5? The novel explores the social and political fallout caused by TL-5's spread. Governments struggle to contain its growth while ordinary citizens grapple with its profound effects on their lives. Fear and desperation give rise to conflicts and divisions within society.

4. How do the characters cope with the crisis? The novel follows a group of survivors as they navigate the overgrown world, searching for food, shelter, and a way to combat TL-5. Their experiences illuminate the human capacity for resilience, adaptation, and the complexities of morality in the face of adversity.

5. What is the novel's ultimate message? "Trouble with Lichen" serves as a cautionary tale about the potential consequences of scientific manipulation, particularly when the long-term effects are not fully understood. The novel raises ethical questions about the responsible use of biotechnology and the importance of considering the unintended consequences of human intervention in the natural order.

¿Cuáles son los libros más leídos por los jóvenes?

¿Qué libros les gusta leer a los adolescentes?

¿Qué libro regalar a un adolescente?

¿Qué libro debe leer una adolescente de 14 años?

¿Qué es lo que más leen los jóvenes? En relación con lo primero, los temas más preferidos por los jóvenes (Nº 23) son amor, aventura y ciencia ficción, lo que está asociado al interés por la ambientación épica de un libro, donde se prefiere marcadamente el futuro y el siglo XX, con un 64,5%.

¿Cuáles son las obras literarias juveniles más destacadas?

¿Qué libros no se pueden dejar de leer?

¿Qué libro me recomiendan para leer?

¿Qué obras y autores son recomendables para la edad de 14 a 16 años?

¿Qué género debería leer un joven de 16 años? Los buenos o mejores libros para adolescentes incluyen novelas románticas, de misterio y clásicas, así como series de libros que pueden llevarlos a nuevos mundos. Los mejores libros para leer para adolescentes pueden estar escritos para este nivel de edad o pueden estar destinados a adultos o, a veces, incluso a niños.

¿Qué libro le puedo regalar a mi hija de 16 años?

¿Qué libro regalar a una joven de 18 años?

¿Qué tipo de libros prefieren leer los jóvenes? Qué buscan los jóvenes al leer Entre las temáticas predilectas en la lectura, la mayoría (64,6%) se decanta por los relatos de aventuras, seguido de la fantasía (45,2%) y la ciencia ficción (39,4%). A la cola quedan géneros como la poesía (6,0%), los deportes (2,3%) o los libros sobre historia (0,8%).

¿Qué libros deben leer los jóvenes?

¿Qué temas les gusta leer a los adolescentes? ¿Qué les gusta leer a los jóvenes? · Los lectores adolescentes leen novela realista y literatura fantástica (fantasy), su género favorito desde hace algunos años (magia e imaginación continúan siendo apuestas seguras e irresistibles).

¿Quién es el autor juvenil más popular? Algunos de los libros juveniles más populares y conocidos incluyen The Hate U Give de Angie Thomas, The House on Mango Street de Sandra Cisneros y The Catcher in the Rye de JD Salinger. Algunos de los principales autores juveniles incluyen a Judy Blume, Nicola Yoon, Marie Lu, Cynthia Voigt, Suzanne Collins, Elizabeth Acevedo y Karen M. McManus .

¿Qué tipos de literatura juvenil hay?

¿Qué puedo leer en Wattpad para adolescentes?

¿Cuáles son los libros más recomendados para leer?

¿Qué libros no se pueden dejar de leer?

¿Cómo se llama el libro más leído en el mundo? Hemos mencionado La Biblia, y junto a ella, quizás sea la Odisea el libro más popular entre los libros populares jamás escritos.

¿Qué es lo que más les gusta a los jóvenes? En resumen, la música, las redes sociales y el entretenimiento son algunas de las cosas que más les gustan a los adolescentes en la actualidad. A través de estos medios, los jóvenes encuentran formas de expresarse, conectar con otros y disfrutar de momentos de diversión en su día a día.

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