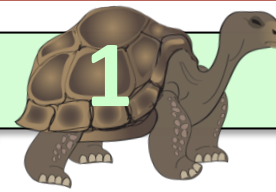


Theory of Evolution Task Cards



Directions: Complete the question or task found on each of the cards. Record your answers on the answer sheet or on your notebook paper as directed by your teacher.

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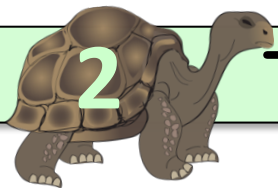
Theory of Evolution

The term theory can have two different meanings:

- What might be the meaning of a “theory” when used in casual conversation?
- What meaning is given to the term “theory” in a science class?



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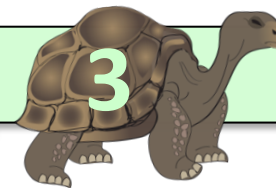


Theory of Evolution

What does the term “evolution” mean?



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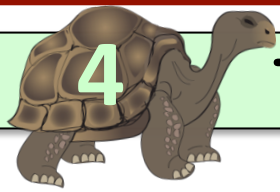


Theory of Evolution

Why is evolution referred to as a theory?



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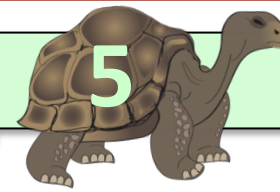


Theory of Evolution

Which individual contributed more to our understanding of evolution than any other?



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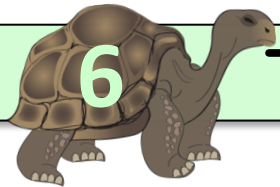


Theory of Evolution

What reasons can you give that might explain why Darwin was eager to sign on as a “naturalist” aboard the HMS Beagle?



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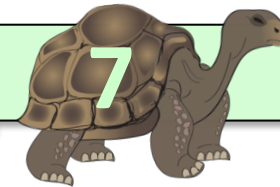


Theory of Evolution

What did the job of “naturalist” aboard the *HMS Beagle* entail? In other words, what was Darwin’s job aboard the *Beagle*?



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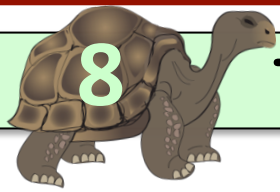


Theory of Evolution

What are “adaptations”?



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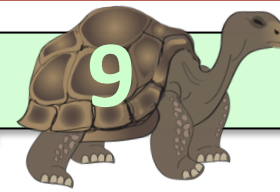


Theory of Evolution

What is a fossil?



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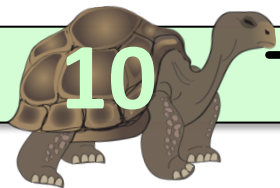


Theory of Evolution

Darwin was greatly influenced by his visit to the Galapagos Islands. Describe the climate in this small cluster of islands.



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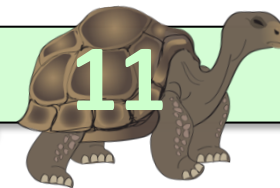


Theory of Evolution

Describe the three types of large land tortoises that Darwin observed while in the Galapagos Islands.



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Theory of Evolution

What did Darwin conclude from observing the shells of the tortoises and the beaks of the finches?



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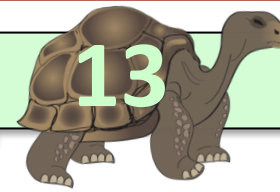


12 Theory of Evolution

Darwin's ideas about evolution were shocking to many people. List two reasons why some people found Darwin's work unacceptable.



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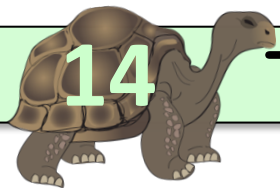


13 Theory of Evolution

From studying the work being done in geology by fellow scientists, Darwin learned two important principals that he incorporated into his theory of evolution. Name these two ideas.



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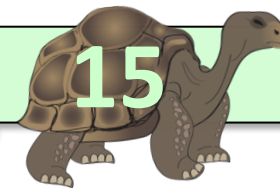


14 Theory of Evolution

Georges Cuvier, a pioneer in the study of fossils, spent years studying rock strata. What conclusions did he reach about the fossils found in different strata?



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15 Theory of Evolution

Describe the idea known as "catastrophism." Which scientist promoted this idea?



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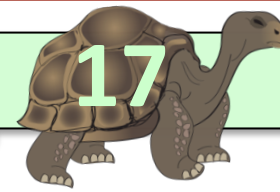


16 Theory of Evolution

James Hutton and Charles Lyell studied the Earth in great detail. What two important conclusions did they reach?



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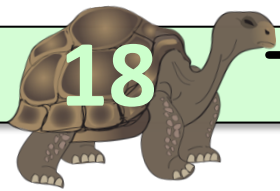


17 Theory of Evolution

Describe the idea known as “uniformitarianism.”



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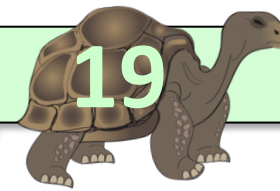
18 Theory of Evolution

What is the “Theory of Acquired Characteristics”?

What scientist proposed this theory?



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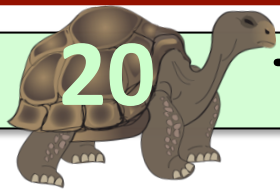


19 Theory of Evolution

What is the difference between an acquired characteristic and an inherited characteristic?



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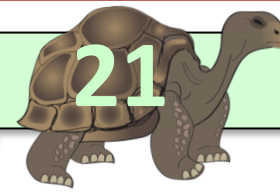


Theory of Evolution

The work of Thomas Malthus influenced Darwin's thinking. Describe Malthus's beliefs about human population growth.



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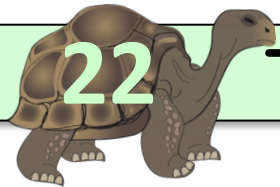


Theory of Evolution

Individuals with certain inherited traits leave more offspring than individuals with other traits. By what name is this idea known?



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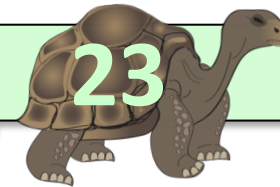


Theory of Evolution

After returning home from his voyage around the world, Darwin was reluctant to publish his ideas on evolution. What changed his mind?



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Theory of Evolution

What is the name of Darwin's book that outlined his theory of evolution?



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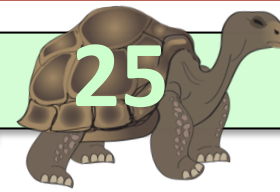


24 Theory of Evolution

Darwin used the term “decent with modification.”
What did Darwin mean?



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25 Theory of Evolution

A method of breeding that allows only those individual organisms with desired characteristics to mate and produced offspring is called?



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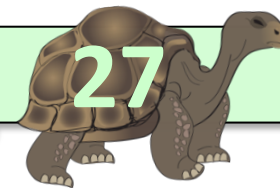


26 Theory of Evolution

What is artificial selection?



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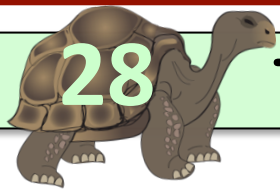


27 Theory of Evolution

In artificial selection, how is it determined which traits and characteristics will be passed to future offspring?



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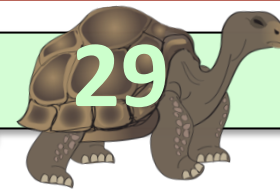


28 Theory of Evolution

In natural selection, how is it determined which traits and characteristics will be passed to future offspring?



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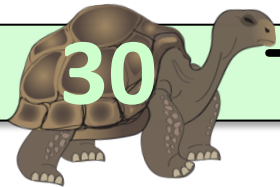


29 Theory of Evolution

What term did Darwin use to describe the ability of an individual to survive and reproduce in its environment?



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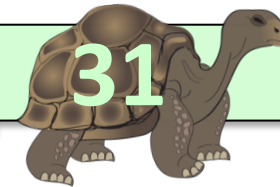
30 Theory of Evolution

There are four essential parts to Darwin's theory of evolution. One part of his theory is listed below. Fill in the blank with the missing term to make the statement correct.

In each generation, more offspring are produced than can _____.



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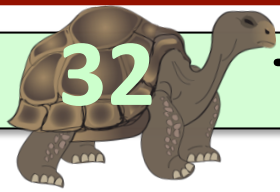
31 Theory of Evolution

There are four essential parts to Darwin's theory of evolution. One part of his theory is listed below. Fill in the blank with the missing term to make the statement correct.

Individuals in a population have _____ in traits.



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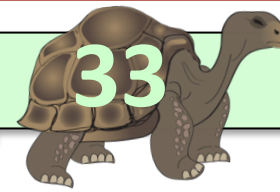
Theory of Evolution

There are four essential parts to Darwin's theory of evolution. One part of his theory is listed below. Fill in the blank with the missing term to make the statement correct.

Individuals must compete for _____.



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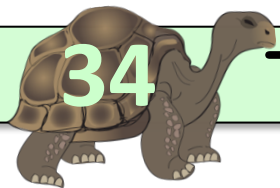
Theory of Evolution

There are four essential parts to Darwin's theory of evolution. One part of his theory is listed below. Fill in the blank with the missing term to make the statement correct.

Individuals with adaptive traits are more likely to _____.



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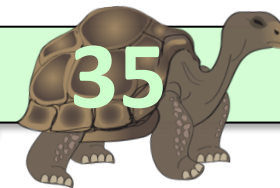
Theory of Evolution

Complete this statement:

Which individuals will survive and reproduce and which will not is determined by _____.



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Theory of Evolution

Complete this statement:

Individuals possessing characteristics that are not well suited to their environment will either _____.



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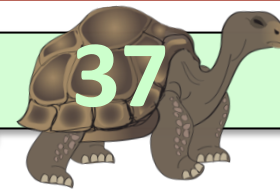


Theory of Evolution

List five areas that provide evidence to support the theory of evolution.



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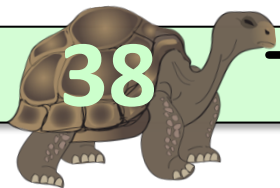


Theory of Evolution

Explain how the fossil record provides evidence for evolution.



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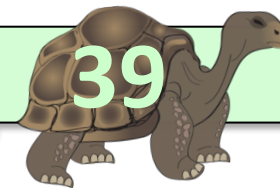


Theory of Evolution

Explain how “geographic distribution” provides evidence for evolution.



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Theory of Evolution

Explain how homologous body structures provide evidence for evolution.



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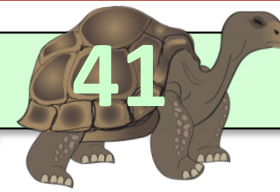


Theory of Evolution

Explain how embryology provides evidence for evolution.



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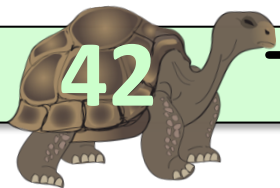


Theory of Evolution

Explain how biological molecules provide evidence for evolution.



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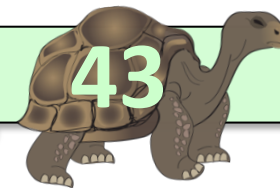


Theory of Evolution

What term is used to describe body structures that are similar in structure but are different in function?



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Theory of Evolution

What term is used to describe body structures that are similar in function but have different structures?



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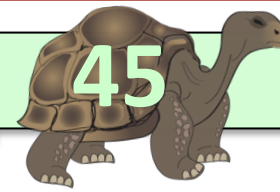


Theory of Evolution

What term is used to describe body structures that are reduced in size and seem to be “left over” from an ancient ancestor?



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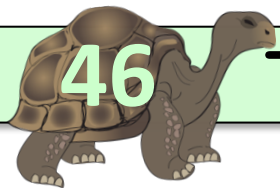


Theory of Evolution

Give an example of homologous body structures.



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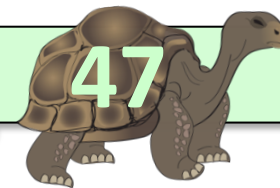


Theory of Evolution

Give an example of two structures that are analogous to one another.



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Theory of Evolution

List two examples of vestigial structures.



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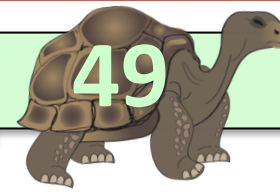


Theory of Evolution

Two organisms have several homologous structures in common. What conclusion can be reached about these two organisms?



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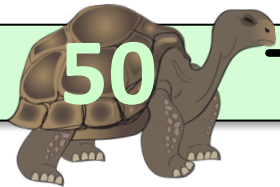


Theory of Evolution

It is possible for evolution to occur so quickly that it can be viewed in a single lifetime. Give examples of evolution that you have seen in your lifetime.



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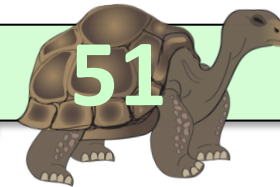


Theory of Evolution

List three reasons why species become extinct.



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Theory of Evolution

What is the evolutionary result of a mass extinction?



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52

Theory of Evolution

Define the term “adaptive radiation.”



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53

Theory of Evolution

Organisms that are distantly related to one another often come to resemble each other because they live in similar environments.

This concept is known as _____ evolution.



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54

Theory of Evolution

In _____ evolution, closely related species become more and more dissimilar.



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55

Theory of Evolution

The process by which two species evolve in response to changes in each other is known as _____.



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Theory of Evolution

Describe the model of evolution known as punctuated equilibrium.



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57

Theory of Evolution

Describe the model of evolution known as gradualism.



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Theory of Evolution



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Theory of Evolution



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