

Evolution and Inheritance

End of Unit Quiz!



It's time to find out just how much you have learned about evolution and inheritance! Are you ready? Here comes the first question...



Write a scientific definition of this word:

inheritance



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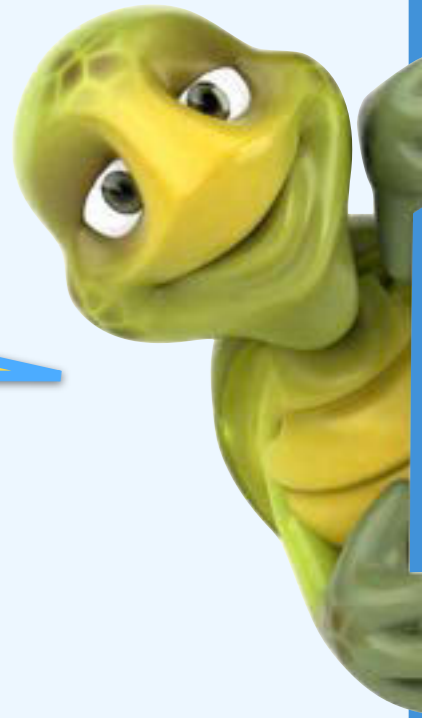
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Was your definition similar to this?



inheritance

The passing of traits or characteristics from one generation to the next.



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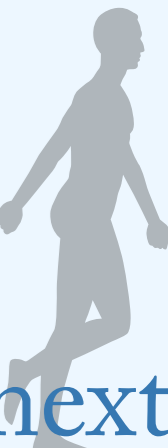
Write a scientific definition of this word:

variation

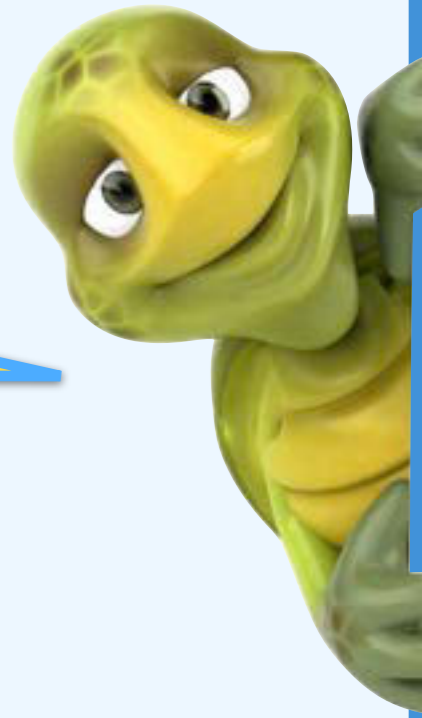


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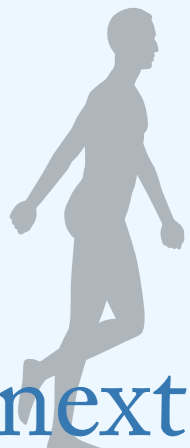


Was your definition similar to this?



variation

Offspring will have many different characteristics to their parents. This is called variation.



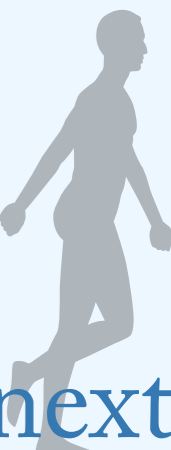
What might happen if an offspring is born with a new, advantageous variation?



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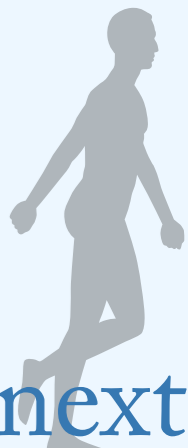


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Was your answer similar to this?

If an offspring is born with a new, advantageous variation it will have a better chance of surviving and reproducing than others of the same species without that variation.



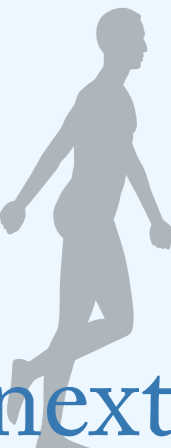
What might happen if an offspring is born with a disadvantageous variation?



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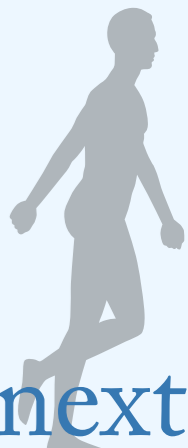


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Was your answer similar to this?

If an offspring is born with a disadvantageous variation it will have a worse chance of surviving and reproducing than others of the same species without that variation.



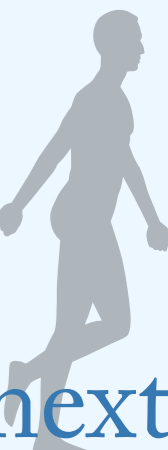
If an animal born with an advantageous variation reproduces, what may happen?



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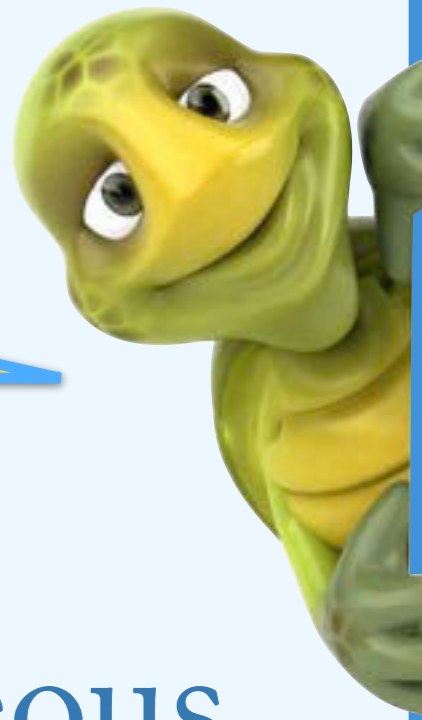
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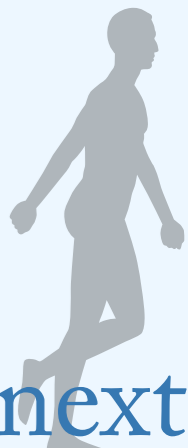


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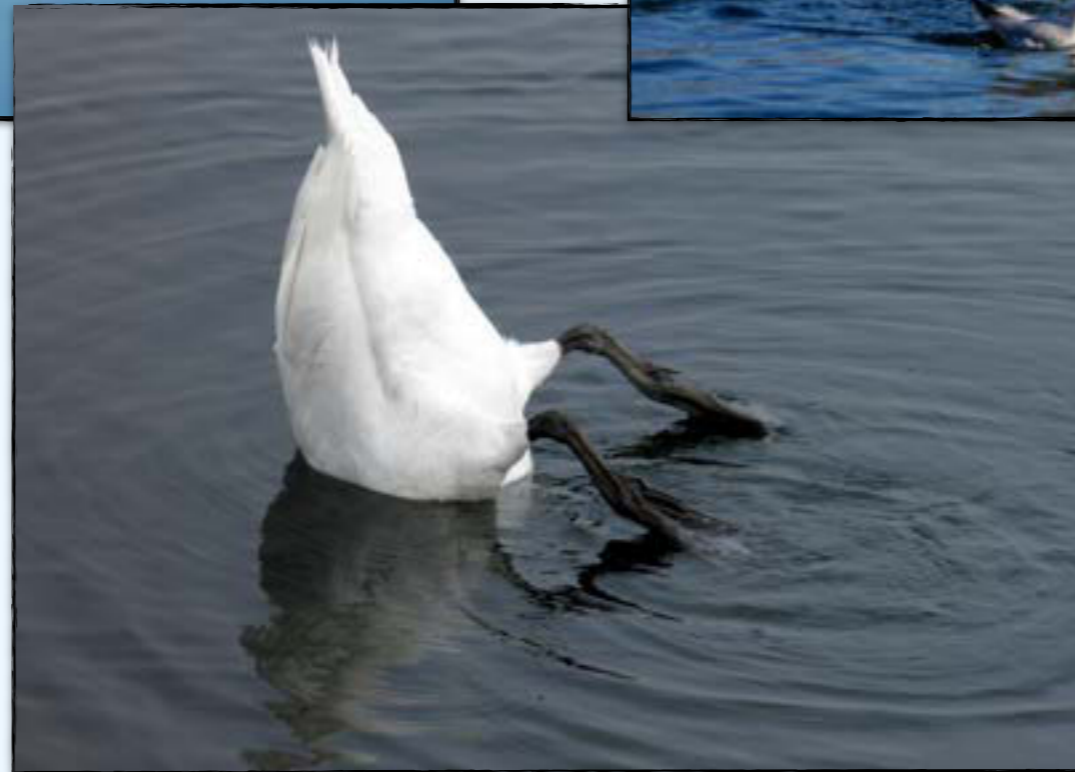
Was your answer similar to this?



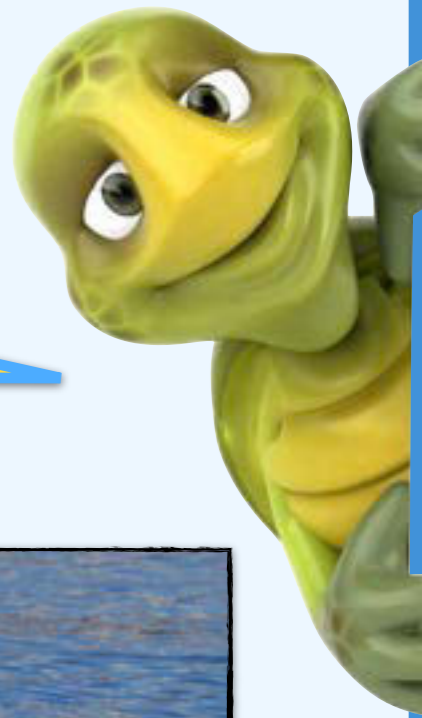
If an offspring with an advantageous variation reproduces, some of its offspring may inherit the same variation. Over many generations, this new variation may spread through the entire population.



Can you think of some ways in which this organism is well adapted to suit its environment?

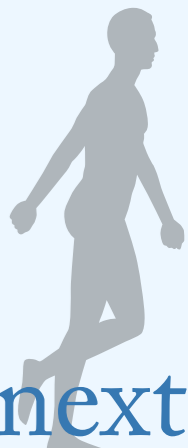


Did you think of any of these?



- Feathers to float and stay dry
- Long neck to reach down to eat food
- Webbed feet for swimming

- Strong wings - can take off on water
- High head - can see predators from far away



Which of these was Carl Linnaeus most famous for?

Developing a system for classifying rocks.

Inventing cats.

Discovering New Zealand.

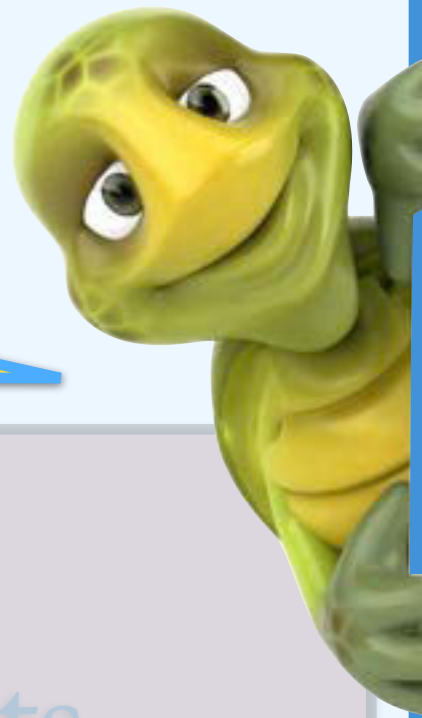
Developing a system for classifying living things.



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Did you get it right?



Developing a system
for classifying rocks.

Inventing cats.

Discovering New
Zealand.

Developing a system
for classifying living
things.



In his book '*On The Origin Of Species*', which of these concepts did Charles Darwin explain?

The process of soil erosion.

The process of natural selection.

The process of cloud formation.

The water cycle.



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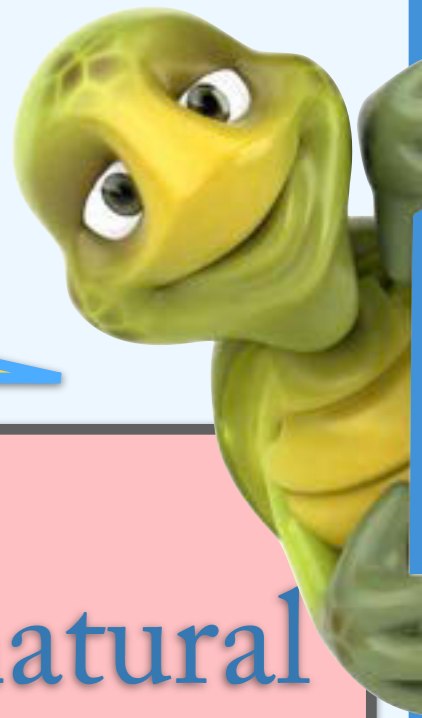
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Did you get it right?



The process of soil erosion.

The process of natural selection.



The process of cloud formation.

The water cycle.



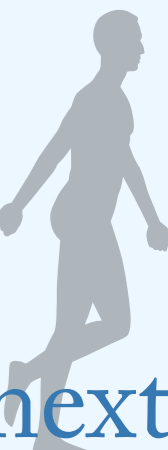
How can studying fossils help us to better understand the process of evolution?



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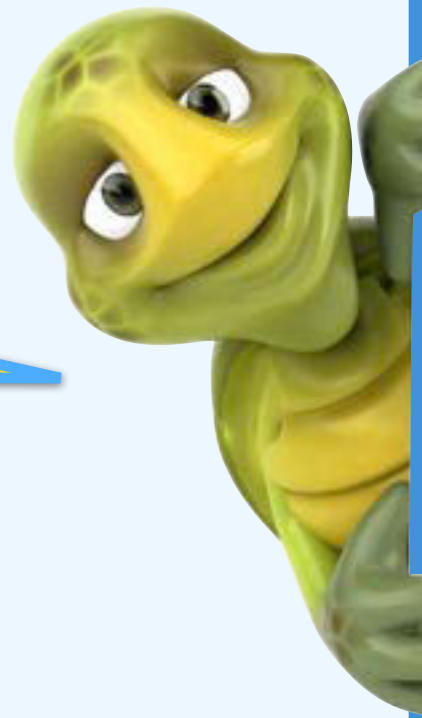
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Was your answer similar to this?



We can date fossils by looking at the rock in which they are found. By comparing fossils of species that were alive millions of years ago with species that are alive today, we can see similarities, differences and ways in which living things have evolved over time.



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Humans have spread out to populate environments all around the world. Can you think of some unique human characteristics which have helped us to survive and thrive in these environments?



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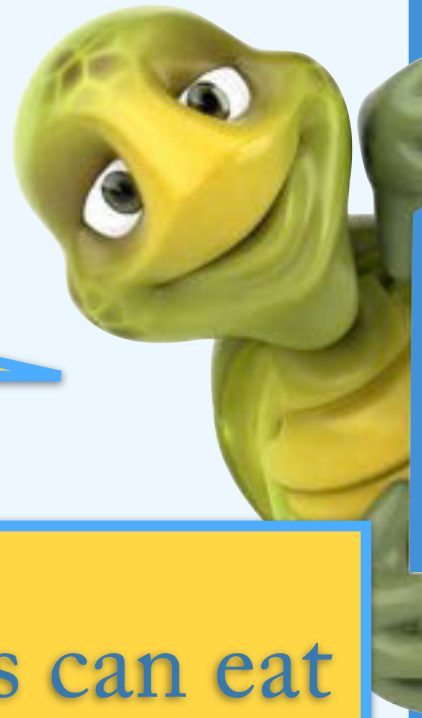
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Did you think of any of these?



Walking upright. Humans can see predators from far away, and travel long distances.

Omnivorous. Humans can eat lots of different types of food.

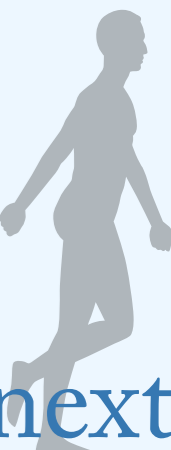
Large brain. Humans can solve problems and change their environment.

Opposable thumbs. Humans can grip things and use tools.

Language. Humans can express themselves in a way no other species can.



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Well done, everyone! How many questions were you able to answer?

