




**How do adaptations help  
species survive?**



# Notes Review

Adaptations - the behaviors and physical characteristics that allow organisms to live successfully in their environments



Competition - struggle between organisms to survive as they use the same limited resources



Symbiosis - any relationship in which two species live closely together and interact in some way

# Adaptations



# Structural Adaptations

Part of an animal's body such as body movement, body covering, type of appendages, and body shape.



# Behavioral Adaptations

Types of activities performed which help the organism meet a life need.




**Let's explore  
adaptations!**





# **Bird beaks analysis**

<http://www.vtaide.com/png/bird-adaptations3.htm>



**Were these adaptations  
structural or behavioral?**







**Now explore  
to find more!**



# Explore more



Info on adaptations: [https://sciencetrek.org/sciencetrek/topics/animal\\_adaptations/facts.cfm](https://sciencetrek.org/sciencetrek/topics/animal_adaptations/facts.cfm)

Check out some weird adaptations here: <https://www.businessinsider.com/these-7-animals-have-crazy-adaptations-to-help-them-to-survive-in-their-habitats-2016-7>

Adaptations in the tundra: <https://www.nps.gov/bela/learn/kidsyouth/alaskan-animal-adaptations.htm>

Adaptations in an extreme animal athlete - <https://www.biointeractive.org/classroom-resources/science-extreme-animal-athlete>

The amazing tardigrade: <https://www.livescience.com/baby-squid-and-tardigrades-launched.html>

<https://www.youtube.com/watch?v=ZT8YswmQuAg>

<https://www.youtube.com/watch?v=lxndOd3kmSs>

<https://www.youtube.com/watch?v=U9YoHJJLsbE>



# Done early

Done early? Check these sites about adaptations!

- Info on adaptations: <https://www.nationalgeographic.org/encyclopedia/adaptation/>
- Examples of adaptation: <https://files.mccdistrict.org//self%20guided%20opportunities/Amazing%20Animal%20Adaptations.pdf>
- Simulation: <https://connected-bio-spaces.concord.org/>
- Natural selection game: [https://phet.colorado.edu/sims/html/natural-selection/latest/natural-selection\\_en.html](https://phet.colorado.edu/sims/html/natural-selection/latest/natural-selection_en.html)
- Info and game: <https://studyjams.scholastic.com/studyjams/jams/science/animals/animal-adaptations.htm>




A stylized landscape illustration. The sky is a gradient from orange at the top to yellow at the bottom. There are several blue and purple clouds scattered across the sky. In the foreground, there are layered mountain ranges in shades of blue and purple. The text is centered in the middle of the image.

**But that's not the  
weirdest adaptation...**



# Weird Adaptations



- Every ecosystem has its own set of adaptations
  - Tardigrades are magical and can survive anything
  - Flamingoes are okay with being frozen in ice
  - Extremophiles are just crazy - and everywhere
  - Humans totally had adaptations as well!
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# Adaptation in the real world!

I saw this outside  
my doctor's office.  
Talk about  
behavioral  
adaptation, right!?

