

# Natural Selection



## 1 why do dinosaurs all look so different?

Have you ever wondered why there are so many different types of dinosaurs?

The reason dinosaurs look so different is because of a process called **natural selection!**



Charles Darwin

## 2 what is natural selection?

Natural selection is how the forces of nature affect which animals are most suited to their environment.

**This idea came from Mr. Charles Darwin!**

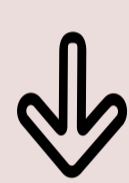
There are so many different kinds of natural selection!

## 3 Directional selection

In directional selection one trait is favored over the other

Think of why a brachiosaurus would need a longer neck?

One extreme trait is favored over another extreme trait: **neck size.**



## 4 Disruptive Selection

In disruptive selection both extreme traits are favored over the moderate trait: **wing size**

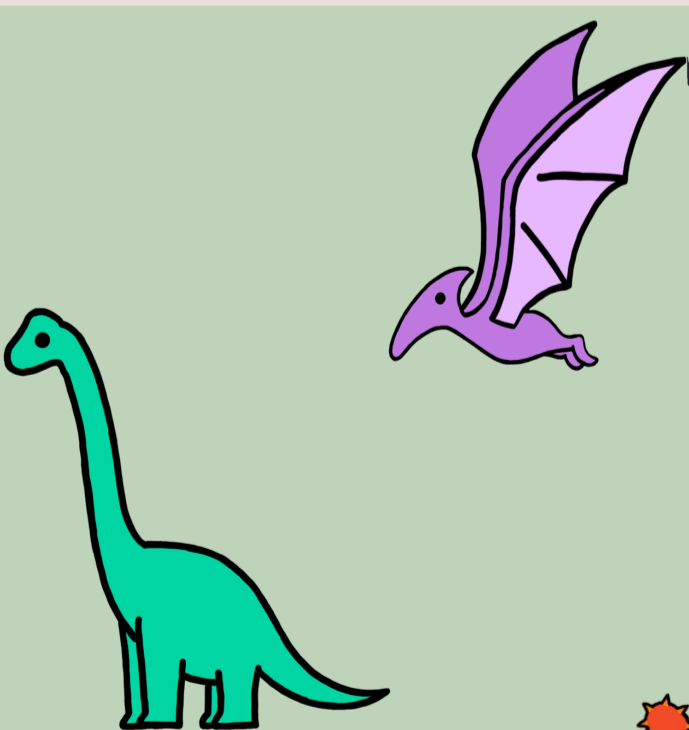
Think of why a pterodactyl would need big or small wings?



## 5 Stabilizing selection

In stabilizing selection a moderate trait is favored over the extremes: **tail size**

Think of why tail size could help or hurt a ankylosaurus?



## 6 No dinosaur's perfect!

- Evolution and natural selection are **not** seeking to make the perfect animal.
- The results of natural selection are:
  - Traits that can help an animal
  - In their specific environment

## 7 sources:

- <https://courses.lumenlearning.com/boundless-biology/chapter/adaptive-evolution/>
- <https://quizlet.com/252167461/directional-disruptive-stabilizing-selection-diagram/>

- <https://www.peepsburgh.com/cute-transparent-background-transparent-pixel-dinosaur-clipart/>
- <https://depositphotos.com/114334396/stock-illustration-the-naturalist-and-geologist-charles.html>

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