

# Evolution & Natural Selection

## DOODLE NOTES

### GENETIC Evolution

natural selection changes the range of traits in a population - there are 3 ways it can change. Let's look at a moth population that shows



### Evolution by natural selection

Describe the theory of natural selection and how the theory was first conceived (thought of).

An English naturalist named Charles Darwin went on a voyage around the world. He noticed that animals in similar environments had similar characteristics. For example, in the Galápagos islands, Darwin observed similar but non-identical species of finches on each island. He noticed that their beaks seemed to be adapted to their food source. After some time thinking and the work of other scientists, Darwin developed his theory of natural selection.

Individuals with favorable traits survive and reproduce, passing on those traits to their offspring. Over time, the population becomes better adapted to its environment.

**An example of natural selection!**

<p>A population of light brown moths lives in an area of dark wood. They are their own best friends.</p>	<p>Cool!</p>
<p>A predator cat comes light and find out against the wooden tree trunk, so they will be easy to notice, i.e. they are not safe.</p>	<p>Wow!</p>
<p>The moths with dark fur are camouflaged against the dark wood where they live.</p>	<p>NOOOOOO!</p>
<p>A higher proportion of dark moths are born in the next generation, meaning the beneficial trait.</p>	<p>Staying in the wood!</p>

Stabilizing

Stabilizing selection represents the graph -  $\sigma^2$

### GENE FLOW

What is it? Movement of genes in or out of a population. It happens through movement of individuals or the movement of gametes, e.g. pollen. This can bring new alleles into a population or change the frequency of existing alleles.

**Example:**

Population 1

Population 2



MULTIPLE VERSIONS & EXAMPLE

# Evolution And Selection Answer Key

**Richard Bailey**



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