The FRAME Routine	Key Topic Natural Selection	
		is about
Main idea	Main idea	
Essential details	Essential detai	ils
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Essential details	Essential det	ails

<u>So What? (What's important to understand about this?)</u>

Conditions Required for Natural Selection (Extension)

- Use the information from your frame to construct your own scenario of natural selection.
- Your scenario can be written in a story-like format and must include a plant or animal species.
- Your plant or animal species can be fictional or real. Your scenario must specifically describe how your species evolved and why.

The FRAME Routine

кеу торіс Natural Selection

a mechanism that explains evolution, in which individuals that have inherited beneficial adaptations produce more offspring than others. Specific conditions are required in order for natural selection to occur:

1. Overproduction of Offspring

Essential details

- Organisms have more offspring than can survive.
- Example: Sea turtles can lay anywhere from 70 to 190 eggs at a time, approximately <u>one out of 100 typically survive</u>.

3. Struggle to Survive

Essential details

- Species compete for to obtain food, living space, water etc.
- Only the fittest will survive and reproduce
- Example: Jaguars with larger jaws and teeth can eat shelled reptiles. They are more likely to survive longer and leave more offspring compared to jaguars who only eat mammals.

2. Inherited Variation

Essential details

- Offspring inherit their traits from their parents, in the form of genes
- Individuals of a species differ due to genetic variation.
- Example: Some jaguars may be born with a larger jaw size and teeth from others in the same jaguar population.

End Result

Essential details

- If all conditions are present, natural selection will occur
- Results in differential reproductive success
- Individuals that possess those favorable traits will live long enough to reproduce and pass down those traits to their offspring.

So What? (What's important to understand about this?)

If the conditions are present, bacteria can evolve to be antibiotic-resistance. This can affect the medication available to humans when you have an infection and require antibiotics.