

Problem. How does the knowledge of evolution and population genetics help us understand the future effects of environmental changes?

Artifacts. These two artifacts make up the DIY exhibit:

1. Presentation of Information. Must include a model that accurately explains how genetic variation (in a nonhuman population example) could affect the survival of different species as the environment changes.

Options for presentation include but are not limited to the following:

- a. Panels
 - b. Video
 - c. Slide Deck
 - d. Article
2. Audience Interaction. Include a way for the audience to ask questions, answer questions, or weigh in with their ideas. Examples could include the following:
 - a. Interactive [Genome DIY Exhibit App](#)
 - b. Google Form
 - c. Padlet/Jamboard
 - d. Chart paper and adhesive notes

1. Presentation of Information

Evolution DIY Exhibit Question

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Resources you will use to investigate your question. Options can be found in the [Evolution DIY Exhibit Research Guide](#) or through research.

Model Checklist

- ☐ How is the environment changing, and what type of organism is affected?
- ☐ Do we have all of the relevant parts of the body and body systems for that organism in our model?
- ☐ Are we explaining various physiological strategies or traits these organisms have and how they are helping an organism survive and reproduce?
- ☐ Are we modeling how these environmental changes might affect the population over time?
- ☐ Are we explaining how we can use the knowledge of genetic diversity and evolution to help protect organisms now and in the future?

2. Audience Interaction

What questions will you want the audience to consider? How will the audience share their ideas?

