Choice Boards in Biology

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BIO 150/151

What are Choice Boards?

The choice board approach allows students to choose a method of learning that best suits their individual needs.

Choice Boards increase student engagement

Choice Boards increase assignment completion

Choice Boards increase student confidence, engagement and ownership in their learning

Week 14 Choice Board

Natural Selection Canva	Using Canva, create a public service announcement for one of the following topics. Evolution of a population, bacteria, or virus. In your Canva announcement, include: the species name, how it evolved, and the events that led to its evolution. Be sure to cite any/all sources using the CSE format. **How to use Canva for your assignment.** ☐ Go to Canva.com ☐ If you already have a Canva account, sign in. ☐ If you do not have a Canva account, choose "Get Canva Free" and create a free account. ☐ Once logged in, go to the Templates Tab at the top. ☐ Choose a template for your project. ☐ After completing your research, add your information to the template. ☐ If you need additional help using Canva, click on the tutorials/getting started with Canva tab
Natural Selection Art in Science	Using your computer, or pencil and paper, draw an example of a population that is evolving. In your drawing, include: the species name, how it evolved, and the events that led to its evolution. Also explain how natural selection has affected this population and resulted in its evolution. Be sure to cite any/all sources using the CSE format.
Viruses Concept Map	Design a concept map about the Coronavirus family of viruses. On the map, include the common cold, SARS, MERS and COVID-19. Then explain the evolution of the COVID-19 variants that are currently circulating in the world today. Be sure to cite any/all sources using the CSE format.

Choice Board Options Should Vary

Choose one of the assignments below and complete before Saturday of Week 9 at 11:59pm

AutoDraw	Scientist Spotlight	Podcast	Scientific Discovery
Using Autodraw create an illustration for the entire process of photosynthesis, and explain each step.	Create a one-page Wikipedia entry about Cassandra Extavour OR Penny Chisholm. Use your textbook and their interview on Mastering Biology. To access these scientists on MB click the Bb link for MB. Then click Study Area, Additional Resources, then Campbell Interviews.	Find a podcast related to photosynthesis and watch it. Write a short review of the podcast ,and tell how it relates to the process of photosynthesis. No more than 500 words. Include URL for podcast and properly cite all sources used in CSE format.	Find a published journal article related to the process of photosynthesis. Write a short review of the paper, and tell how it relates to the process of photosynthesis. No more than 500 words. Properly cite the article in CSE format.

Traditional Choice Board Options

Chapter summary
Take a quiz
Guided reading (active reading guides)
Concept map
Summarize chapter concepts
Draw the concepts
Padlet learning
Watch a podcast on topic from course material

Creative Choice Board Options

Create a Kahoot

Create a comic strip

Create a video

Create a public service announcement

Create a short story/poem

Ask a scientific professional questions – they find the answers to the questions

Scientist Spotlight/Scientific discovery – find a scientist who works on the topic and talk about their research

Canva Creations



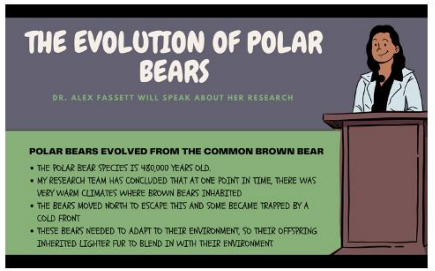
Humans are to blame for the evolutionary changes observed in cliff swallows. Swallows have begun to build their nests beneath bridges and overpasses. These areas are not subject to erosion, unlike their previous homes on cliffs and bluffs. This change in habitat led to a new issue when these birds would hunt for food. They would often fall and take too long to avoid cars because of the length of their wings. As a result, they would be hit and killed by speeding cars.

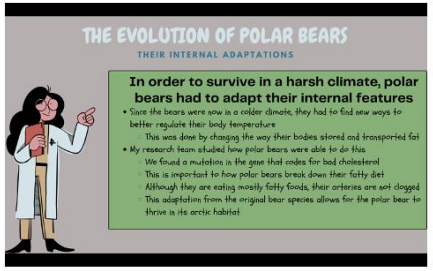
HOW?

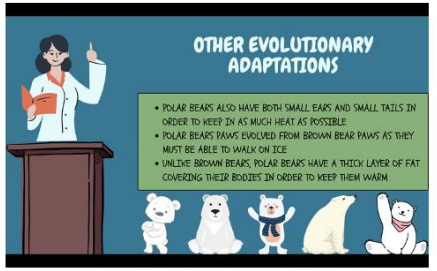
For years, thousands of swallows became roadkill highways and this number gradually declined. Recently, scientists have observed swallows are developing shorter wings. Shorter wings have made it possible for swallows to fly out of the way of moving cars at a faster speed. Natural selection was at play. The swallows with shorter wings were selected for because they were able to survive and reproduce, passing on

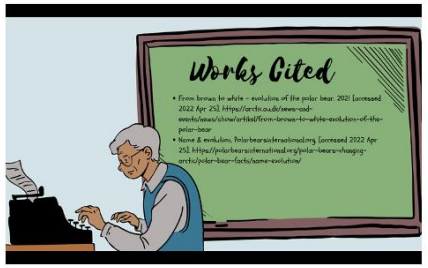












Art in Science

