

Grade 8 Science – Modified from *Unit 5 Natural Selection***Targeted Goals from Stage 1: Desired Results**

Content Knowledge: This activity will allow students to apply some of their learning from previous assignments as well as build analysis and synthesizing skills.

Vocabulary: allele, gene, adaptation, mutation, generation, evolve/evolution

Skills: Analyze experimental data, synthesize information, and communicate learning.

Expectation: Follow the steps outlined in the linked document “Rock Pocket Mouse Directions and Questions.” Each day this week, you will perform a different step(s) until completion. At the end of the week, you will respond to questions in Edulastic to assess how well you understood the information from this week.

| Description of Task (s): | Resources and Materials: | Daily Checks (Return to Google Classroom or snapshots from a cell phone) |
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| <p>Monday: Watch the video “The Making of the Fittest: Natural Selection and Adaptation”</p> <p>Read and follow the directions in the Rock Pocket Mouse Directions and Questions document.</p> <p>Complete all the way through “Step 4” today (page 1 to the top of page 3). You will start with “Step 5” on page 3 in the packet tomorrow (Tuesday).</p> | <p>This document will be used all week. Rock Pocket Mouse Directions and Questions:</p> <p>Posted in Google classroom</p> <p>Video: Biointeractive video- The Making of the Fittest: Natural Selection and Adaptation</p> <p>Pictures to go along with assignment if needed: Posted in Google classroom</p> | <p>Your teacher will check your progress in your Rock Pocket Mouse packet for completion daily.</p> <p>If you end up printing anything out and writing it by hand, simply take a photo of your work and upload it to google drive, classroom, or e-mail it directly to your teacher.</p> |
| <p>Tuesday:</p> <p>Go to page 3 of the Rock Pocket Mouse Directions and Questions document and start with “Step 5” today. You may need to re-watch some of the video, please feel free to do so.</p> <p>Complete Step 5 through Step 7, Question 1 a., and 1 b. Be sure to use a calculator if you need help calculating the percentages in the data table. Then stop for today.</p> | | <p>Your teacher will check your progress in your Rock Pocket Mouse packet for completion daily.</p> <p>If you end up printing anything out and writing it by hand, simply take a photo of your work and upload it to google drive, classroom, or e-mail it directly to your teacher.</p> <p>If you get stuck, please reach out to your teacher for help.</p> |
| <p>Wednesday:</p> | | |

| Description of Task (s): | Resources and Materials: | Daily Checks (Return to Google Classroom or snapshots from a cell phone) |
|---|----------------------------|--|
| <p>Follow the directions in the Conclusion/Summation section of the Rock Pocket Mouse Directions and Questions document. Respond to the questions at the end in complete sentences and don't forget to back up your claims with evidence from this activity.</p> | | <p>Your teacher will check your progress in your Rock Pocket Mouse packet for completion daily.</p> <p>If you end up printing anything out and writing it by hand, simply take a photo of your work and upload it to google drive, classroom, or e-mail it directly to your teacher.</p> <p>This is a good day to make sure you are caught up in this packet. You will have 2 days to work on the conclusion/summation part of the activity.</p> |
| <p>Thursday:</p> | | <p>Your teacher will check your progress in your Rock Pocket Mouse packet for completion daily.</p> <p>If you end up printing anything out and writing it by hand, simply take a photo of your work and upload it to google drive, classroom, or e-mail it directly to your teacher.</p> <p>This conclusion statement will complete the packet, however, if you need more time to finish it, you may submit it by 2 pm tomorrow (Friday). Ideally, you should finish this before you try to take the Edulastic assessment.</p> |
| <p>Friday:</p> <p>Complete the Edulastic assessment that will be posted in your teacher's google classroom. It will ask you questions about this week's activity.</p> | <p>Edulastic questions</p> | <p>Complete and submit the Edulastic assessment. Contact your teacher if any problems or questions arise.</p> |

Week criteria for success (attach student checklists or rubrics):

Students will be able to: (Check off as these are completed)

____ - Create accurate responses to questions that follow the Rock Pocket Mouse video that demonstrate a proficient level of understanding and analysis.

____ - Provide accurate answers to the edulastic assessment at the end of the week.

Supportive resources and tutorials for the week (plans for re-teaching): links to below are posted in Google classroom

YouTube Video - *Natural Selection and the Rock Pocket Mouse* — HHMI BioInteractive

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Video Transcript: [biointeractive.org -NatSelectionAdaptation-Transcript-Film.pdf](https://www.biointeractive.org/-NatSelectionAdaptation-Transcript-Film.pdf)

Additional Explanation Sheet: [biointeractive.org Mouse Fur Color- Student Supplement-act.pdf](https://www.biointeractive.org/Mouse-Fur-Color-Student-Supplement-act.pdf)

Links to HHMI resources and further information to explore if you are curious:

Rock Pocket Mice and Predation animation: [biointeractive.org Rock Pocket Mice and Predation](https://www.biointeractive.org/Rock-Pocket-Mice-and-Predation)

Simulating Evolution Animation:

[biointeractive.org Simulating Evolution Rock Pocket Mouse Population](https://www.biointeractive.org/Simulating-Evolution-Rock-Pocket-Mouse-Population)

Interactive version of the video with a quiz:

[biointeractive.org Interactive Assessment Natural Selection and Adaptation](https://www.biointeractive.org/Interactive-Assessment-Natural-Selection-and-Adaptation)