

Grade 8 Science – Modified from [Unit 5 Natural Selection](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Students will employ their knowledge of genetics and apply this to how mutations during cell division can potentially help an organism adapt and survive better in its indigenous habitat.

Vocabulary: Cell division terms, heredity, trait, genetics, fertilization, purebred, gene, alleles, dominant, recessive, probability, Punnett square, phenotype, genotype, heterozygous, homozygous, codominance, meiosis, mutation

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

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Kick off to evolution: study.com-mutations when DNA is- copied wrong (When the video stops and asks you to log in, do not worry about it. We have watched all we need to watch.)	Genetics Unit Vocabulary: There is a lot of vocab here, some of which you do not need like the cell division ones. Genetics Unit Vocabulary	Define the terms in your own words worksheet, this is optional. Genetics vocab review <i>This is an optional activity but if you take Biology as a freshman, it is valuable to know this vocab.</i>
Tuesday: Who wants to Survive a million years Game: Try to get your species to live many generations by adapting them to potential changing environments. Try the game several times to have them survive a million years. The webquest should take you around 3 or 4 days	Game: Who wants to live a million years (allow Adobe Flash player to load) if it doesn't, click on the "Questions to activity and there is also a live link there. Who Wants to Live a Million Years? Background info and vocab: Who want to Survive a Million Years Information and Vocabulary	Questions to "Million Years activity" Who Wants to Live a million years wksht
Wednesday: Begin the webquest. There is a lot to do here so split the work into 2 days	Webquest	Natural Selection Webquest
Thursday: Your webquest should be completed after today. If not, complete it Friday.	Webquest	Natural Selection Webquest
Edulastic check in: This link will be posted to Google Classroom on Friday morning.		Edulastic Assessment:

Week criteria for success (attach student checklists or rubrics): Students will demonstrate their understanding of genetics through application of vocabulary, on-line game, and subsequently identify animal adaptations (genetic mutations) which lead to a greater species survival. **Supportive resources and tutorials for the week** (plans for re-teaching): Worksheets for individual practice as well as extensive webquest; animal adaptations pictures/worksheet.

Supportive Resources:

Learn Genetics - Natural Selection Link posted in Google classroom