Name TA



Learning Guide # 15: Natural and Artificial Selection

BIG IDEA: Natural, Artificial Selection, Population Genetics.

Fundamental Knowledge (I know)

- □ What **Artificial Selection** is AND can explain what it is/means. Use an example.
- □ What **Natural Selection** is AND can explain what it is/means. Use an example.
- □ How to explain how adaptive radiation has led to multiple species.

Proficiency Scale Evidence Teacher and Student self assessment (How do you know?) (Circle one) I can: Emerging (EMG) Initial Understanding Express and reflect on a Developing (DEV) variety of Partial/Near Complete experiences, Understanding perspectives, and world views Proficient (PRF) through place. **Complete Understanding** Extending (EXT) Sophisticated Understanding Emerging (EMG) Initial Understanding Contribute to **Developing (DEV)** finding solutions Partial/Near Complete to problems at a Understanding local and/or global level **Proficient (PRF)** through inquiry. **Complete Understanding** Extending (EXT) Sophisticated Understanding

Curricular Competencies (I can)

Student Signature:

Teacher Signature:

Date:

Instructions To help guide your learning, make your way through the activities in Option 1, Option 2, or Option 3. You may "mix and match" between the different Option columns.

ΤΟΡΙϹ	OPTION 1 (Worksheet)	OPTION 2 (Textbook)	OPTION 3
Artificial and Natural Selection	Find appropriate resources to start to building your understanding of artificial and natural selection: Crash Course Stated Clearly Define the following terms: Evolution, natural selection, artificial selection, fitness, population, traits	Find, source, and share appropriate resources with your teacher to gather knowledge of natural and artificial selection. Create a "MindMap" of the following terms: Evolution, natural selection, artificial selection, fitness, population, traits	Choose your own adventure! Pick up a planning sheet from the Science Kiosk. Create a plan! Make sure you read through the first page of this LG, as you will need to design ways to learn/practice
	Create a Similarities and Difference "T" Chart to show your understanding of natural and artificial selection.	Compare natural and artificial selection using a Venn diagram.	and show your understanding of the topic(s) and skill(s) (competencies.)
	Complete the Darwin's Natural Selection Worksheet.	Write a summary of the process of natural selection and use examples to show your understanding. Specify 2 different types of adaptations in your summary.	You will need to have a teacher approve your plan before beginning the
Adaptive Radiation	 Visit the following link and review <u>adaptive radiation in Darwin's finches</u> and then watch the video: <u>Galapagos Finch Evolution</u> Write a summary in which you discuss how adaptive radiation has led to the many different species of finches on the Galapagos islands. 		10.
Lab	No lab.		
Self Assessment	Reflect on the Fundamental Knowledge and Curricular Competencies. Use the rubric and make goals to improve for your next learning guide.		
Interview or Quiz	See you teacher for an interview or to have a quiz slip signed for the test center. Bring your work and staple it to your quiz when complete.		

Resources can be found at <u>www.THSSscience.com</u> or the Science Kiosk

User: THSS

Password: **science**