

Friday, January 17, 2015

Unit: Genetics

Lesson 5

Big Ideas

Genetic information is passed from parent to offspring.

Living things change over time: Evolution.

Living things are alike yet different.

Objectives

1. Students will be able to describe the process for how scientists name and classify life: binomial nomenclature, and taxonomy through discussion
2. Students will be able to understand how evolution and classification are interrelated through a teacher facilitated lecture.
3. Students will be able to use content specific vocabulary to understand text.

Materials

Science Notebooks

Science Books

Procedures/Strategy

1. Students will enter the classroom and add the I can statements to their notebooks. Teacher will go over the I can statements outlining the procedure for the day.
2. Activation of prior knowledge (Engage): Generation of class discussion
 - Recall why do we organize things?
 - How do scientists organize life? And why do they do this?
 - Share out mnemonic devices
 - Share with your elbow partner decide whose is better, share with your L partners decide whose is better, put winner up on the board and in your Output for today.

TRANSITION.... We group things in this manner to help us organize, who can think about how we organize groups of people to help us understand our history?

- Who has a family tree?

- What does your family tree show you?
- 3.** Read and discuss Chapter 7 Lesson 4 (Explain)
 - Students will complete the text boxes for the lesson (7-10 minutes)
 - Special note to pg. 269 diagram
- 4.** Class discussion (Elaborate)
 - Introduction to the idea of evolution and relatedness.
 - Demonstrate how tree diagrams show relatedness.
 - Specifically discuss pg. 269 diagram.

Content Vocabulary

Classification	Genus	Branching Tree Diagram
Taxonomy	Species	Shared Derived
Binomial Nomenclature	Evolution	Characteristics
		Convergent Evolution

Evaluation

1. Formative

Notebook checks for understanding on branching tree diagrams.

2. Summative

N/A (Test upcoming)

Extensions/Next Steps

- If students are struggling with the concept of branching trees, complete pullouts during station rotations or check back in after stations. Review day before the test in a week and a half.
- Next Lesson: Stations on Classification
- Homework: Vocabulary Due. Complete text boxes for Chapter 7 Lesson 4.