

Thursday, January 16, 2014

Unit: Genetics

Lesson 4

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 what all living things need to survive in class discussion.
2. Students will be able to use content specific vocabulary to understand text.
3. Students will be able to understand how and why scientists classify life.

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
 - Review what living things need to survive from reading last class/homework
 - What do we need to survive?
 - Space, water, food, stable internal conditions
 - Stress that space needs to have adequate resources: Why can we all not live in the corner of the classroom?

TRANSITION... Now that we have talked about life and what life needs to continue living, lets talk about how scientists organize life...

- Is your room organized?
 - How is your room organized?
- Do your parents have spaces in the house that they keep organized?
 - How do they organize these areas?

- Why do we organize?
 - How do we organize?
 - How might scientists organize life?
3. Read and discuss Chapter 7 Lesson 2 (Explain)
 - Students read and complete the text boxes for Chapter 7 Lesson 2 about 7-10 minutes.
 4. Class discussion about classification (Elaborate)
 - Clarification of key terms
 - Elaboration about name structure (Genus species) and why scientists follow this procedure.

Content Vocabulary

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

Evaluation

1. Formative

Thumbs up/Thumbs down activity post discussion about what living things need to survive.

Notebook check

2. Summative

N/A

Extensions/Next Steps

- Reiterate vocabulary in following class and orally review classification levels checking student mnemonic devices for remembering Domain, Kingdom, Phylum, Class, Order, Family, Genus, and Species. Continue on into Lesson 4
- Next Lesson: Branching Tree Diagrams and Evolution
- Homework: Complete Text boxes for Lesson 2 and vocabulary in Science Notebook Due Friday.