# Tuesday, January 14, 2014

Unit: Genetics

Lesson 2

# **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 explain the characteristics of all living things to each other and the class through a jigsaw activity.

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- **2.** Students will be able to understand the importance of Redi and Pasteur's experiments through reading.
- 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 as the objectives of the day.
- **2.** Activation of prior knowledge (Engagement):
  - Teacher will ask students what it means to be living
  - How do we know something is living?
  - Do living things have things in common?
  - Why is my cell phone not living?
- Students will be instructed on the creation of a graphic organizer (see science notebook Output #2)
- **4.** Jigsaw Reading Activity (Explore/Explain)

- The class will be divided in half and students will be divided into groups with their lab partner to read the excerpts I the book on the 6 characteristics of living things.
  - Each group reads about 1 characteristic with a total of 2 groups (4 people reading about the same characteristic).
- Students will convene as a half of the classroom to discuss the characteristics that their read about, and to present their information to each other.
- Teacher will parallel teach each half of the class during this time.
- Critical Thinking: Pose the questions (Elaborate)
  - Which of the 6 characteristics is the most important?
  - Do you think there is there a character that all living things developed first (i.e. Chicken or Egg)? (Sequential versus interconnected web?)

#### **Content Vocabulary**

Organism	Metabolism	Asexual reproduction
Cell	Stimulus	Sexual reproduction
Unicellular	Response	
Multicellular	Development	

## **Evaluation**

- I. Formative
  - Feedback from discussion and Jigsaw activity
  - Quick check of the graphic organizer in student notebooks

## **Extensions/Next Steps**

- Quick review of 6 characteristics in next class, with clear focus on content vocabulary through defining the words multicellular, unicellular, metabolism, stimulus, response, development, asexual and sexual reproduction as a group.
- Next Lesson: Redi and Pasteur's experiments connecting to the definition of what it means to be living.
- Homework: Read Redi or Pasteur's experiments (half of class assigned one reading, half the other), vocabulary in Science Notebook Due Friday.