# Thursday, February 13, 2014

**Unit:** Genetics

Lesson 20

## **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 use context vocabulary to read and understand text.
- 2. Students will be able to identify an allele and understand how it effects inheritance.
- **3.** Students will be able to explain the difference between dominant, recessive, homozygous, and heterozygous in a genetics activity.

#### **Materials**

Science Notebooks

Science books

Spongebob practice sheets

# **Procedures/Strategy**

- 1. Students will enter the classroom and take down the I Can statements in their notebooks. Teacher will use these as the objectives of the day.
- 2. Activation of prior knowledge (Engage): Quick Review
  - Think/Pair/Share:
    - What does it mean to say something is dominant or recessive? What are the roles of alleles in inheritance? What does it mean to be homozygous, heterozygous?
    - Students lead to consider these questions in pair groups.
- 3. Explain: Chalk Talk:
  - Using textbox from lesson 2, what is a monohybrid cross?
  - How do we preform a cross? What does it show us?
    - Difference between phenotype and genotype

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- **4.** Elaborate: Spongebob guided and independent practice
  - Using the Bikini Bottom Genetics Sheet, go through #'s 1, 2, 3 and on to #4 before partnered practice and then independent practice.

• Have extra sheets for those ready to move on

### **Content Vocabulary**

Genetics Gene Phenotype

Dominant Allele Fertilization Homozygous

Recessive Allele Trait Heterozygous

Heredity Allele Punnett Square

Purebred Probability
Hybrid Genotype

#### **Evaluation**

Formative

Discussion (observe/listen), Thumbs up/down, worksheet check Entrance Slip tomorrow

2. Summative

N/A

# **Extensions/Next Steps**

- If students are struggling in the transition to genetics, reading for homework and extra practice will help. Continuation of practice tomorrow.
- Next Lesson: Punnett Squares Practice.
- Homework: Bikini Bottom Practice Page

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