Friday, February 21, 2014

Unit: Genetics

Lesson 25

Big Ideas

Genetic information is passed from parent to offspring.

Living things change over time: Evolution

Living things are alike yet different

Objectives

- Students will be able to use their knowledge of probability, dominant versus recessive, homozygous vs heterozygous, and genotype versus phenotype to complete a lab activity with a partner.
- 2. Students will be able to define probability and it's relationship to genetics.
- **3.** Students will be able to explain co-dominance and incomplete dominance.

Materials

Science Notebooks

Science books

SmileyFace Lab Sheets

Colored Pencils

Procedures/Strategy

- Students will enter the classroom and take down the I can statements in their notebooks. Teacher will go over the statements as objectives of the day, preparing the students for the busy lab day.
- 2. Activation of prior knowledge (Engage): Consider yesterday lab.
 - Talk with a partner about the characters your smiley face had
 - Are there any characteristics that show co-dominance inheritance patterns? Or incomplete dominance patterns?
- 3. Explore: Smiley Face Lab
 - Directions given in direct instructions
 - More work up front means less confusion later-be explicit for students!

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- Materials at the front of the room
- **4.** Explain: Follow up post lab sheet
 - Students to complete the post lab independently or with their partner. To be discussed next class or at the end of class pending time.
- **5.** Elaborate: Create your Smiley Face/ Complete reading activity "Why can your brain read this?"
 - Students use the colored paper, colored pencils, etc. to create their smiley face.
 - Students answer questions in their science notebook about the article.

Content Vocabulary

Genetics Purebred Trait

Dominant Allele Hybrid Allele

Recessive Allele Gene

Heredity Fertilization

Evaluation

Formative

Discussion (observe/listen), Think/Pair/Share Feedback, Post Lab

2. Summative

N/A

Extensions/Next Steps

- Individual attention to students who are struggling with punnett squares. Pull students during study hall if necessary.
- Next Lesson: Smiley Lab continued/Reading
- Homework: Lesson 3 Text boxes and vocabulary due Monday.

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