

Friday, February 14, 2014

Unit: Genetics

Lesson 21

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.
4. Students will be able to use punnett squares to determine traits in independent practice activity.

Materials

Science Notebooks

Science books

Entrance slips

Spongebob practice sheets

Extended practice sheets arranged around the room

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.
 - Entrance slips
 - Students will complete the entrance slips and turn them into the tray.
 - Teacher will quickly evaluate for pull outs during independent practice.
2. Activation of prior knowledge (Engage): Quick Review
 - Go over Bikini Bottom Practice Sheet

- Have volunteer student lead the class through example from sheet # 4, 5, and 6.
3. Explain: Mini Lecture
 - Help students through the difficult concepts review
 - Phenotype and genotype.
 - Dominant and recessive
 - Heterozygous and homozygous
 4. Elaborate: Independent practice around the room
 - Around the room their are posted examples of punnet square problems. Complete at least 6 and all 6 vocabulary words in todays output.
 - Check your answers up at the front.
 - Pull students having trouble during this time.

Content Vocabulary

Genetics	Gene	Phenotype
Dominant Allele	Fertilization	Homozygous
Recessive Allele	Trait	Heterozygous
Heredity	Allele	Punnett Square
Purebred	Probability	
Hybrid	Genotype	

Evaluation

1. Formative
 - Entrance slip, Punnett square checks (student assessments)
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 Monday in Lab.
- Next Lesson: Baby Lab
- Homework: Read and complete vocabulary/textboxes for Lesson 3 (p. 322-327).