

Wednesday, February 12, 2014

Unit: Genetics

Lesson 19

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 understand probability and it's relationship to genetics.

Materials

Science Notebooks

Science books

Guided notes

Powerpoint

PTC paper

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:
 - Who was Gregor Mendel? Why did he use Peas? What are traits? What does it mean to say something is dominant or recessive?
 - Students lead to consider these questions in pair groups.
3. Explain: Guided notes in chalk talk about Mendel
4. Elaborate: PTC Activity
5. Independent reading: Text-boxes and vocabulary for Lesson 1&2.

Content Vocabulary

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

Evaluation

1. Formative

Discussion (observe/listen), Thumbs up/down, text boxes check

2. Summative

N/A

Extensions/Next Steps

- If students are struggling in the transition to genetics, reading for homework and vocabulary will help. Continuation of lecture tomorrow.
- Next Lesson: Punnett Squares
- Homework: Lesson 2 Text boxes and vocabulary (p. 316-321)