Socratic Seminar Student guided discussion

Directions: The teacher will assign each group a number topic that they will lead a class discussion, they will be responsible for guiding the group to the correct answer.

Grading for this activity

Part 1: Leading the discussion (70%)

- Presenting your question
- Calling on students to answer and guiding the answers to the correct end result
- Facilitating the discussion
- Recording the answers on the board

Part 2: Participating in the discussion (30%)

- Actively participating in the discussion (Only talking when called upon)
- Adding to discussion not repeating (expanding on an answer not saying I agree with the answer)
- Everyone is required to add to the discussion/ Points taken away for off task behavior

Topics

- 1. Review of the Formal lab write up: Take a Class Survey
 - a. What were the phenotypes that were tested in this experiment?
 - b. Using the "Sample data" How would you answer analysis question number 1? Give specific examples
 - c. Using the "Sample data" How would you answer analysis question number 2? Give specific examples
 - d. Just using this data would we be able to predict what traits our children would have/ Why or why not? If no what would need to be provided to us?
- 2. Probability and Punnett Squares
 - a. Define probability
 - b. How are Punnett squares used to show this?
 - c. How would we define the following
 - i. Phenotype, Genotype, recessive and dominant
 - ii. Give examples from this unit for each
- 3. Alien project with definitions
 - a. How do traits and heredity apply to the Alien activity we did in class?
 - b. Give an example of how your Alien showed inherited traits.
 - c. Could your alien's offspring have traits present that were not present in the parents?
 - i. Ex: Can a child have blue eyes if both parents have brown eyes?
 - ii. If the mother alien has a tail which is a recessive trait and has offspring with an alien without a tail, what would their children have? Explain why.

- 4. Ecology discussion
 - a. What is Ecology?
 - b. What is the difference between Biotic and Abiotic factors?
 - i. Give examples
 - c. What is the difference between a Niche and Habitat?
 - i. Give examples of Niches
 - ii. Give examples of Habitats
 - d. What is the Ecological organization? List all levels.
 - i. Give me an example of the Ecological organization you would find on the Grand Mesa?
 - ii. How would the Ecological organization change if it were in the Amazon?
 - e. Why is dumping paint down the sewer is drains harmful to the ecosystem? How are biotic and abiotic factors affected?
 - i. Long term affects
 - ii. Short term affects