

Learning Intentions

- Demonstrate understanding of the scientific method by suggesting hypotheses, identifying independent, dependent, and control variables, and creating a set of procedures for an experiment.

Assignment

1. Using the knowledge of the figure 4 deadfall trap you gained during its construction, develop 3 hypotheses about ways to improve the trap. The experiment for each hypothesis must be feasible to perform safely in our classroom. The improvement can be whatever you want, such as “requires less force to trigger” or “supports a heavier rock”. For each hypothesis, identify the independent, dependent, and control variables. Describe how the independent and dependent variables would be measured.
2. Choose the best hypothesis from the first question. In a numbered list, create a set of procedures for an experiment to test the hypothesis. The procedures must properly control the experiment, to the best of your ability in our classroom.
3. Are there any variables that could not be controlled? If so, how will they contribute to an error in your final results?

Assessment

Curricular Competency	Insufficient Evidence	Emerging	Developing	Proficient	Extending
Questioning and predicting (hypotheses)					
Planning and conducting (procedures)					
Evaluating (sources of error)					
Communicating					