

Environmental Science – Independent Inquiry and Experiment

Assignment Description

You will choose and conduct an experiment that explores human interactions within the environment or within an ecosystem. You may work individually or in pairs. If working with a partner, keep in mind that you will likely need to meet after school. You may use the following resource to choose a project/experiment:
sciencebuddies.org/science-fair-projects/science-projects/environmental-science/seventh-grade

You may use another resource (or your own idea), pending Mr. A's approval. Your experiment / conclusions should explore both positive and negative impacts that human interactions can have on the environment and ecosystems. You will thoroughly complete the attached 'Independent Science Task Planner.' You will share your results with the class in the form of an organized presentation (PowerPoint, Video, Bulletin Board)

Look Fors

- ☐ all sections of planner completed thoroughly and accurately (including Illustrations)
- ☐ all materials gathered (Mr A. May be able to help)
- ☐ appropriate hypothesis using unit-specific scientific terminology
- ☐ detailed observation and conclusion that includes a suggestion for follow-up experiment
- ☐ final presentation shared with class featuring description and/or photographs for each section of your planner (**Hypothesis, Materials, Procedure, Observations and Conclusion**)

Student Name(s): _____

Name of Experiment: _____

Due Date: _____ Jan 12 _____

	Below Expectation	Approaches Expectation	Meets Expectation	Exceeds Expectation
Planning Hypothesis and Procedure clearly explained (before beginning experiment); both completed thoroughly using appropriate scientific terminology				
Organization Needed materials gathered; communicated with teachers/adults if assistance/supervision is needed; experiment documented with notes, photos, illustrations and/or video				
Analysis Observations and reasonable conclusions thoroughly explained; hypothesis confirmed or refuted; reasoning detailed; follow-up suggested				
Presentation Evidence of experiment (photo, video, notes) and results shared with class in a meaningful, engaging way using multiple media elements; Engaged effectively in Q&A with the class				

Independent Science Task Planner

Title:

Name(s):

Materials

Procedure

Hypothesis

Observations	Illustrations

Conclusion