9th Grade Honors Physical Science 'B' Prerequisites/Application

Lake City High School

Overview

Students interested in enrolling in the 9th Grade Honors Physical Science 'B' course must meet the following requirements in their Physical Science 'A', and in addition, receive recommendation by their 9th grade Physical Science 'A' teacher.

- 1. Hold at least an 85% average grade in Physical Science 'A'.
- 2. Demonstrate safe/appropriate laboratory and classroom behavior at all times.
- 3. Demonstrate mastery of the required Scientific Methods Assessment Report in Physical Science A.

Scientific Methods Assessment Report

All Physical Science A students interested in Honors Physical Science B will complete a thorough, authentic, and cohesive scientific investigation on a given topic of the student's choice.

The report will challenge students to demonstrate their skills in designing a meaningful experiment, collecting sufficient and relevant data, processing and presenting data, drawing reasonable conclusions, and communicating results. The final product will be on a poster and will be submitted to Science Department faculty for review. The report must fulfill the following guidelines for completion:

- 1.) Develop a focused research question.
- 2.) State a testable hypothesis.
- 3.) Select appropriate variables to be tested and controlled.
- 4.) Provide a description of methods and procedures.
- 5.) Present collected data in the form of tables and graphs.
- 6.) State a reasonable conclusion based on the data collected.

The report should be completed on a ½ standard-sized poster board (22in. x 14in.). If students are in need of poster board/paper, please notify Science Department faculty.

Notification of Acceptance

Students accepted into 9th Grade Honors Physical Science 'B' will be notified of their acceptance by Science Department faculty and/or the Lake City Counseling Department.

Application/Acceptance Clause

Lake City High School Science Department faculty reserve the right to include/exclude an individual into Honors Physical Science 'B' based on a case-by-case, independent analysis.

Scientific Method Assessment Report Scoring Rubric *Physical Science B Application*

Student Name:	Project Title:
Current Grade in Physical Science A:	Initials of Physical Science A Instructor:
Why are you interested in honors science classes?	

	1	2	3	List Score Here
Question Hypothesis and Variables	 Question/Problem is not clear Hypothesis/Prediction is not present or doesn't address the question at all Variable(s) are not included 	 Question/Problem is somewhat clear Hypothesis/Prediction somewhat addresses the question Some variable(s) are included but are not complete or are not clearly identified 	 Question/Problem is specific and very clear and can be answered by doing an experiment Hypothesis/Prediction addresses the question very clearly Independent (manipulated), Dependent (responding) and Controlled variable(s) are included and are clearly identified 	
Experimental Procedure	 Materials list is not detailed and complete and clear Experimental procedure is not clear Includes no trials 	 Materials list is somewhat detailed and complete and clear Experimental procedure is very clear Includes only 2 trials 	 Materials list is very detailed and complete and clear Experimental procedure is very clear Includes at least 3 trials 	
Data	 Data is not clear Poor or No use of photos/charts/graphs to display data. 	 Data is somewhat clear Good use of photos/charts/graphs to display data 	 Data is very clear Excellent, proper use of photos/charts/graphs to display data 	
Conclusions and Error Analysis	 Conclusions are not supported by the data and limitations/errors are not discussed. 	 Conclusions are not clearly supported by the data and limitations/errors are not clearly discussed. 	 Conclusions are clearly supported by the data and errors/limitations are clearly and appropriately discussed. 	
Display	 Display is neither neat, creative, nor organized No attention to detail 	 Display is somewhat neat, creative and organized Minor attention to detail 	 Display is very neat, creative and organized Significant attention to detail 	
Creativity	 Project shows a low amount of creativity. 	 Project shows a medium amount of creativity. 	 Project shows a high amount of creativity. 	