

Rubrics

Level 4

- Student understands the scientific method (including order of steps) and feels confident producing a science project on their own.
- Student understands the purpose of a hypothesis and can express it as an “if, then” statement.
- Student understands experimental design including replication, control, and variables, and can draw appropriate conclusions based on data.
- Student can accurately construct the appropriate type of graph (bar graph, line graph, or pie chart) to best represent the data.

Level 3

- Student understands the scientific method (including order of steps) but does not feel confident producing a science project on their own.
- Student understands the purpose of a hypothesis but may have difficulty expressing it as an “if, then” statement.
- Student understands experimental design including replication, control, and variables, but has difficulty drawing appropriate conclusions based on data.
- Student can accurately construct a graph but may select the wrong type of graph to represent the data.

Level 2

- Student understands the scientific method but is unsure of the order of steps and does not feel confident producing a science project on their own.
- Student understands the purpose of a hypothesis but does not understand that it is properly expressed as an “if, then” statement.
- Student understands replication, control, and variables, but has difficulty designing an experiment and drawing appropriate conclusions based on data.
- Student can construct one type of graph but has difficulty making other types.

Level 1

- Student does not understand the scientific method
- Student does not know what a hypothesis is and cannot properly construct a hypothesis statement.
- Student does not understand experimental design.
- Student cannot properly construct a basic graph.