Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Density/Buoyancy Penny Boat Lab**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Content | 4 – Exceeds Standard | 3 – Meets Standard | 2 – Approaching Standard | 1 – Below Standard |
| Experimental Design | Hypothesis is well thought-out using prior knowledge to make connections and is a possible solution to the problem. | Hypothesis does not use prior knowledge to make connections and is somewhat a possible solution to the problem. | Hypothesis contains a minor connection between variables and results but uses no prior knowledge. | Hypothesis does not demonstrate a connection between variables and results and uses no prior knowledge. |
| Data | Student correctly fills in data for each level (boat design) including a sketch, dimensions, a prediction, and results. | Student fills out most of the data sheet requirements but may be missing one element from score of 4. | Student fills out most of the data sheet requirements but may be missing two elements from score of 4. | Student did not include the data sheet. |
| Questions | Student answers all questions thoughtfully with evidence, relevant vocabulary with and sophistication. | Student answers questions with basic word choice and little evidence. | Student answers questions with no evidence to support claim. | Student does not answer any questions. |
| Background Research | Student includes all of the requirements of the paragraph thoughtfully with evidence and sophistication. The use of content based vocabulary is evident. | Student includes all of the requirements of the paragraph with basic word choice and little evidence. The use of content based vocabulary is basic. | Student is missing two of the requirements of the paragraph. Choice of vocabulary is basic and there is little evidence. | Student did not include any background research. |
| Conventions | Grammar and punctuation contain no errors. Format completely followed. | Grammar and punctuation contain few errors that do not interfere with meaning.  Format mostly followed. | Grammar and punctuation contain some errors that may interfere with meaning. Format somewhat followed. | Grammar and punctuation contain many errors that interfere with meaning. Format not followed at all. |