

"Final Report Rubric"

Score	Density & Buoyancy	Spreadsheet	Predicting Ability
High	<ul style="list-style-type: none"> Students explain why their predictions proved true or false by comparing the densities of the object and the liquid medium. 	<ul style="list-style-type: none"> Student includes the actual data table including density calculations, student predictions, and the outcome of the experiment. 	<ul style="list-style-type: none"> Student explains how relative densities can be used to accurately predict if an object will sink or float in a specific medium.
Medium	<ul style="list-style-type: none"> Students explain why their predictions are true or false by telling the reader that it has something to do with the densities of the object and the liquid medium. 	<ul style="list-style-type: none"> Student includes the actual data table but the density calculations are done manually, not automatically. 	<ul style="list-style-type: none"> Student explains how to calculate densities but does not explain how they relate to an object that sinks or floats.
Low	<ul style="list-style-type: none"> Student tells if prediction is true or false but offers little correct explanation why it is so. 	<ul style="list-style-type: none"> Student includes the data table but it is not complete and does not show the density calculations. 	<ul style="list-style-type: none"> Student makes little reference to the relationship between densities and if one object sinks or floats in another medium.
Not Acceptable	<ul style="list-style-type: none"> Student omits prediction and the results of the experiment. 	<ul style="list-style-type: none"> Student does not include the data table in the Word report. 	<ul style="list-style-type: none"> Student does not include comparing two objects' densities in predicting if one object will sink or float in another medium.

_____ Density and Buoyancy Comments:

_____ Spreadsheet Comments:

_____ Predicting Ability Comments:

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Score	Volume/Irregularly Shaped Objects	Volume/Regularly Shaped Objects
High	<ul style="list-style-type: none"> • Student explains clearly how to measure the volume of an irregularly shaped object. 	<ul style="list-style-type: none"> • Student explains clearly how to measure the volume of a regularly shaped object using algebraic formulas and demonstrates this both manually and automatically.
Medium	<ul style="list-style-type: none"> • Student explains a little vaguely how to measure the volume of an irregularly shaped object. 	<ul style="list-style-type: none"> • Student states the volume of a regularly shaped object can be measured using algebraic formulas and gives some examples of this work.
Low	<ul style="list-style-type: none"> • Student explains poorly how to measure the volume of an irregularly shaped object. 	<ul style="list-style-type: none"> • Student states that algebra is used to calculate the areas of regularly shaped objects but gives no examples of this work.
Not Acceptable	<ul style="list-style-type: none"> • Student does not explain how you measure the volume of an irregularly shaped object. 	<ul style="list-style-type: none"> • Volumes are just listed in the data table with no explanation of how they were calculated or are not listed at all.

_____ Volume/Irregularly-Shaped Objects Comments:

_____ Volume/Regularly-Shaped Objects Comments:

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Score	Relationship Between Ideas	Definition of Terms
High	<ul style="list-style-type: none"> • Student clearly shows the relationship between the ideas of mass, volume, density and buoyancy 	<ul style="list-style-type: none"> • Student presents a clear definition of mass, volume, density, and buoyancy.
Medium	<ul style="list-style-type: none"> • Student shows there is a relationship between the ideas of mass, volume, density and buoyancy. 	<ul style="list-style-type: none"> • Student basically defines mass, volume, density and buoyancy.
Low	<ul style="list-style-type: none"> • Student says that mass, volume, density, and buoyancy are somehow related. 	<ul style="list-style-type: none"> • Student basically defines mass, volume, density, and buoyancy.
Not Acceptable	<ul style="list-style-type: none"> • Student does not mention that there is a relationship between mass, volume, density, and buoyancy. 	<ul style="list-style-type: none"> • Student basically defines one or none of the following: mass, volume, density, and buoyancy.

_____ Relationship Between Ideas Comments:

_____ Definition of Terms Comments: