BLM1: How much water is in a tomato?

Student Name(s): _____ **Date:** _____

Inquiry Question: What is the testable question for this inquiry?

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Prediction: What do you predict your inquiry results will show? Why?

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Inquiry Steps/ Method: How will you find out the amount of water in a tomato? Write out the basic steps taken, from start to finish. Add illustrations as necessary.

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Data Collection & Analysis:

Using the before and after mass data, calculate the mass of water that was in the tomato **(A)**. Then, calculate the percent of the tomato that is water **(B)**.

Mass of tomato before drying _____ grams

Mass of tomato after drying _____ grams

A. **Mass of water = Mass of tomato before drying – Mass of tomato after drying**

= _____ - _____

= _____

What percent of the tomato was water?

B. **Percent Water = [Mass of water only (grams) ÷ Mass of whole tomato (grams)] x 100**

= (_____ ÷ _____) x 100

= _____

Conclusion: Based on our results, I/we conclude that:

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This _____ (proves/disproves) our prediction.

Discussion: How is this information useful? How might tomatoes be useful for space exploration?

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