

Scientific Method and the Watermelon/RubberBand Experiment

Class period: ____ Team Member Names/Numbers:

1	_____
2	_____
3	_____
4	_____
5	_____
6	_____
7	_____
8	_____

1. Identify the problem/Purpose: What do you want to know or explain? Why? How? What? Question to be solved. Must be about something measurable. Use observations you have made to write a question that addresses the problem or topic you want to investigate:

2. Form a Hypothesis: What do you think will happen? Prediction with a quantitative result. Use **If - then** statements: If ____ [*I do this*], then ____ [*this will happen*]
Focus on one variable only.

3. Experiment: GOAL: Tests your hypothesis. Is it accepted (right) or rejected (wrong) ?

a: List the materials you will need: _____

b: What are your controls? _____

c. What are your variables? _____

d. What variable/s are you going to measure & record? _____

e. List your procedures:

f. What safety equipment will you need? _____

Change only one variable at a time. Use a control or control group (*A group that has nothing done to it. Standard used for comparison in an experiment.*)

In order for results to be valid, conduct several tests.

