POUDRE SCHOOL DISTRICT

Scientific Method

Intermediate Level

Name: _____

Date: _____

1. Problem

What do you wonder about?

State the question(s) the experiment is trying to solve.

Which car will roll further?
Heavier or lighter?
Big wheels or small wheels?

2. Background Research

What do you already know?

Gather information about the problem before the experiment.

3. Hypothesis

What do you predict will happen?

- Predict what will happen in the experiment.
- Identify variables and controls.

Scientific Method (continued)

4. Experiment

- What supplies do you need?
- What steps will you take?

- Materials—List supplies and equipment used to conduct experiment.
- Procedure—Describe the step-by-step process on how the experiment was performed.

5. Results

What happened in your experiment?

- Record and graph quantitative data.
- Report qualitative observations.

	Trial 1	Trial 2	Trial 3	Average
No weight				
Extra weight				
Big wheels				
Big Wheel & Extra Wt				

6. Conclusion

- What did you learn about your prediction?
- What new questions do you have?

- Summarize results.
- State if hypothesis was supported or not.
- Suggest improvements to the experiment.