General Science Notebook Rubric

	3 Exceeds Expectations	**2** Meets Expectations	**1** Needs Improvement	**0** Not Demonstrated
Written Communication & Reasoning from Science Notebook Prompts*	Responses include key parts of the question. Student thinking and reasoning is explained. Connections are made beyond what is asked.	Responses include key parts of the question for clarity. Reasoning is correct.	Responses are inaccurate or incomplete.	Not enough writing was done to communicate understanding of the prompts.
Data Analysis	Data tables complete and legible with units included. Explanation of data integrates information from booklet.	Data tables complete and legible with units included.	Data or explanation is incomplete.	Not enough data to draw conclusions.
Scientific Illustrations	Drawings are complete and labeled. Scientific observations demonstrated by level of detail and color.	Drawings are complete and labeled.	Drawings incomplete with lack of attention to detail.	Drawings difficult to decipher.
Teamwork	Collaborates with partner sharing materials and tasks. Communicates thinking throughout exploration.	Collaborates with partner sharing materials and tasks.	Controls equipment or investigation without attempts to include partner.	Withdraws from partner and or investigative process.

*See page 2 for details on kit Science Notebook prompts and tasks.

Get Energized Science Notebook Prompts

Page 3: What do you think it means to test something *systematically*?

Page 8: Record the voltage you get (if any) on your data table (template taped into science notebook). Be sure to indicate if the voltage is negative by using a minus sign.

Page 9: Do you notice a pattern in your data table? If so, explain. What metal combinations resulted in the highest voltage reading? Lowest?

Page 10: Did you get the same voltage as you did with the jar of electrolyte (refer to your data table)? If not, what could affect the voltage reading and produce a different result?

Page 12: Draw and label a quick sketch of the washer combinations you chose including the voltage given by each cell.

Page 15: Design a table to record and compare the different types of light, distance, and angles, to the current readings.

Page 16: If the washers are tilted perpendicular to the angle of light, you will get a higher current reading. In fact, most solar panels are often tilted on purpose. Why do you think that is?

Page 21: Using the diagrams here and what you have learned, explain how rechargeable batteries and solar cells work in your own words.