Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Period\_\_\_\_ Seat #\_\_\_\_

**RWS 1.2: Science in Context**

1. Draw Figure 1-4 in the space below. Then, add a specific example to illustrate each process.
2. Summarize the four habits of mind that a good scientist should have.

1.

2.

3.

4.

1. Describe a “fact” that you have heard or read that made you skeptical. Explain your reasons for doubt.
2. How can practical problems and new technology lead to scientific advancement?
3. What is peer review and why is it important to the scientific process?
4. A study shows that a new pesticide is safe for use on food crops. The researcher who conducted the study works for the pesticide company. What potential biases may have affected the study? What could be done to avoid these biases?
5. How is engineering different than science?
6. Briefly describe each of the following activities that are used in both science and engineering
	* 1. Developing and using models
		2. Using mathematics and computational thinking
		3. Constructing explanations and designing solutions
		4. Engaging in argument from evidence