

Name \_\_\_\_\_

Date \_\_\_\_\_

### **Analyzing Why Bulbs in Series are Less Bright than Bulbs in Parallel: Developing Rival Explanations**

When you hook up bulbs in series, they are less bright than when you hook up bulbs in parallel. What do you think is going on? Explain what you think is happening. Draw a diagram on the back if it helps you to explain.

Now that you have finished one possible explanation, try to think of another. Explain your second idea. Draw a diagram if it helps you to explain. Try to make your second idea as different as possible from your first.

Now, read each idea over carefully to make sure that there aren't any gaps in your explanation. If there are, make a carrot (^) and add the missing piece of the explanation.