

INTERACTIVE RESEARCH PLANNING FORM 1

(for exploratory-level experiments)

Name _____ Date _____

1. What question have you chosen to investigate, and why?

Example: Do WHEBIP and macroinvertebrate protocols yield similar results about stream and riparian habitat quality?

2. Briefly describe a project you would like to do to address this question.

Example: First we will select two sections of a stream flowing near our school. Then we will obtain airphotos and conduct the WHEBIP protocol on all sections. Next, we will collect macroinvertebrates from each stream section and use Protocol 7 to assess water quality. Finally, we will compare results.

3. What supplies will you need? How will you get any that are not already available in our classroom?

Example: We will need airphotos and materials listed in Protocol 5. We have all the equipment except waders, which we will borrow from the nearby university.

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4. How do you plan to schedule your project?

Example: We will need two class periods to conduct the WHEBIP protocol on the two stream sections. Then we will need two double class periods to sample and identify invertebrates. Finally, we will need one or two class periods to complete Protocol 7 and compare results with the WHEBIP protocol.

5. Can you find reports by other students or professional scientists on this topic? If so, what can you learn from what has already been done?

6. Meet with another student or group to discuss these plans using the **Experimental Design Peer Review Form** (p. 158). Then describe any changes you've decided to make based on this discussion.