1. When would scientists prefer to use a clinical trial?

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2. What are the three different types of study designs?

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3. If you were a scientist and wanted to know the effectiveness of a particular drug, which study design would you use and why?

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4. In a randomized clinical trial, why is it important that only one group gets the active version of the drug?

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5. In an RCT, what would happen if both groups got the active version of the drug? Would it still be considered an RCT? Explain.

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__________________________________________________________________________
YOUR TURN: CREATING A STUDY DESIGN

Directions: Now that you are more familiar with various study designs and how to write a hypothesis, it is your turn to be the “scientist”. Working with a partner or in small groups, you will be creating a study to investigate one of the following questions:

A. Which type of dog food, wet or dry, is best for dogs?
B. Do students at your school prefer chocolate milk or regular milk?
C. Does the sugar in soda have a negative effect on the body?

First, decide which study question you will investigate. Your teacher may assign your group a specific topic.

Investigation Topic circle one: A B C

Hypothesis:

Identify the Independent Variable (IV), Dependent Variable (DV) and Constants (C) for your study. The IV C DV Chart found in Activity 1B may be helpful.

IV:

DV:

C:
Type of Study Design

________________________________________

Study Participants

________________________________________

Permission(s) Needed to Conduct Study (administration, parents, students)

________________________________________

Duration of Study (how long will the study take?)

________________________________________

Materials Needed

________________________________________

Procedures (Describe actions to be taken)

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