

# Schmied's QPH Help Sheet

Card One - Basic rules for writing investigative questions.

1. No pronouns ever!
2. Never use the word CHANGE
3. Be SPECIFIC
4. Create no questions that can be answered by Yes or No
5. Only write the Question about the experimental trial
6. Know and follow the QPH FORMATS

Card Two - Question Example format:

How will ...?... *Manipulated Variable* .... *Study Subject*.. (either order) affect the Responding Variable ?

(The Responding Variable should be last.)

Example: How will feeding Guinea Pigs a diet of apples affect the weight (mass) of the Guinea Pigs?

Card Three - Prediction Example Format

IF contains the *Manipulated Variable* and *Study Subject* (either order!),

Then contains the *Experimental Trial*, then a *specific prediction* about the Responding Variable and "compares to" *the Control* (if a control is used)

(Please be sure to follow the ET, RV, CT order given in the Then statement.)

Example:

If Guinea Pigs are only fed apples ,

Then the Guinea Pigs fed apples will gain less mass compared to Guinea Pigs fed a variety of food.

Card Four - Hypothesis Example Format

The IF and the THEN are the same as the Prediction

- a. The Because gives a logical, realistic, reason for choosing the predicted outcome.
- b. The Because includes the reason WHY as well as the *Study Subject, Manipulated Variable, & Responding Variable* in the explanation.

Example

If Guinea Pigs are only fed apples,

Then the Guinea Pigs fed apples will gain less mass compared to Guinea Pigs fed a variety of foods, Because a diet of apples is not well balanced. Thus, this diet will cause the Guinea Pigs to lose mass