### Delve AP Psychology 2007-2008

### **Lecture Notes 1.1: The Scientific Method**

The Scientific Method is a research model consisting of the following seven steps:

### 1. Define the Problem

- choose a topic and make it as clear and specific as possible.

### 2. Review Existing Literature

- is your question already answered?

## 3. Formulate a Hypothesis

- state the problem as a testable hypothesis and construct operational definitions of variables.

## 4. Choose a Research Design

- select one or more ways to test your hypothesis (e.g. experiment, survey, observational study, etc...)

### 5. Collect the Data

- collect and record information according to your research design.

# 6. Analyze the Results

- arrange your information and statistically interpret the findings; then confirm, reject, or modify your hypothesis (go back to step 3).

### 7. Draw a Conclusion

- discuss the significance of your findings. Is there replication in your research?