

# Scientific Method

- I. State the Problem:
  - a clear statement about what you are trying to solve
- II. Gather Information
  - read books, articles, journals, ask questions - talk to other people,
  - observations - color, type of material, shape, smell, texture, sound
  - data - "size" - l, w, h, weight, temperatures
- III. State a Hypothesis
  - educated guess
  - predicts a possible answer to your problem
  - If . . . . . then . . . . .
- IV. Perform an Experiment
  - list of materials
  - a written procedure to follow
- V. Record + Analyze the Results
  - graphs, photographs, pictures, diagrams, chart, data table
- VI. Write a conclusion
  - statement that accepts/rejects or is inconclusive in regards to the hypothesis
  - make recommendations for further study + possible improvements
- VII. Communicate the Results
  - publish results, talk to peers, presentation