

Methods of Science



OBSERVE
observe observe observe

wonder? wonder? wonder?

why? how?

"If...Then..."
testable hypothesis
What do I predict?
testable explanation

measurements
variation I need DATA!! error

define variables

- ◆ independent variables
- ◆ dependent variables

design experiments

- ◆ observations
- ◆ manipulations
- controls
- repeated trials

calculate GRAPH

time to analyze my data

summarize evaluate

Creative thinking What can I conclude?

next question? critical thinking

