

1.State the purpose/proble mor question... Ask why. What do you want to find out?



2. Gather background information ... Research, learn

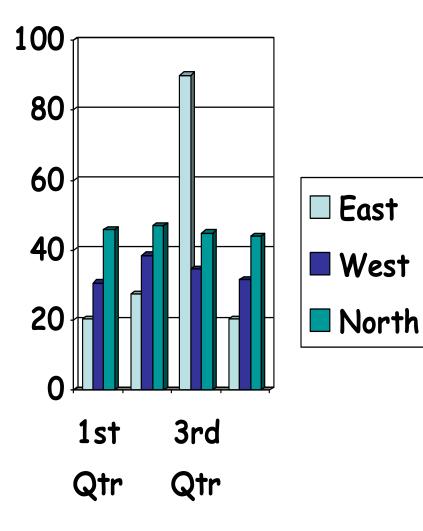


3. Form a hypothesis... a testable, possible explanation. What do you think will happen? If...then...stateme nt

4. Test hypothesis... perform an experiment, make observations, or make a model. Make a specific list of what will be done.



5. Analyze data – make tables, graphs, etc. What happened? What did you see, hear, or smell? **State your** observations





6. Draw a conclusion --what do the results mean? Was your hypothesis Correct or incorrect?

Part B:Terms to Know

- Independent variable – determined and manipulated [changed] in the experiment
- Dependent variable – changes in response to the independent variable

 Constant – a variable that does not change when other variables change

> Control – a standard used for comparison

THEORY vs. LAW

 Scientific theory – explanation based on knowledge gained.



 Scientific law – statement about what happens in nature that always seems to be true