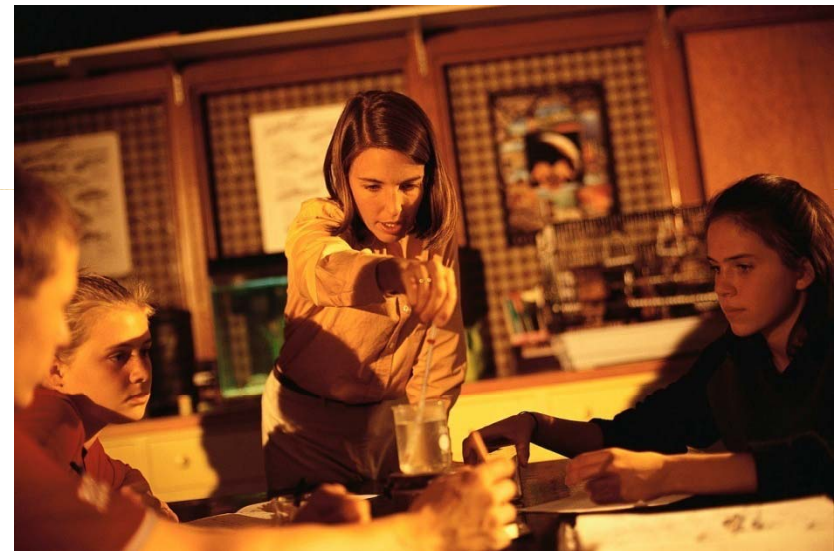
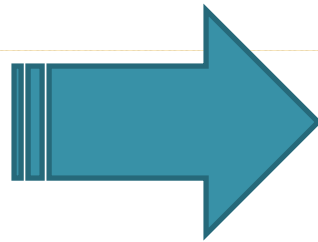


From Cookbook to Experimental Design



Jenny Sue Flannagan and Rachel McMillan
Regent University
National Science Conference
March, 2008

KUD

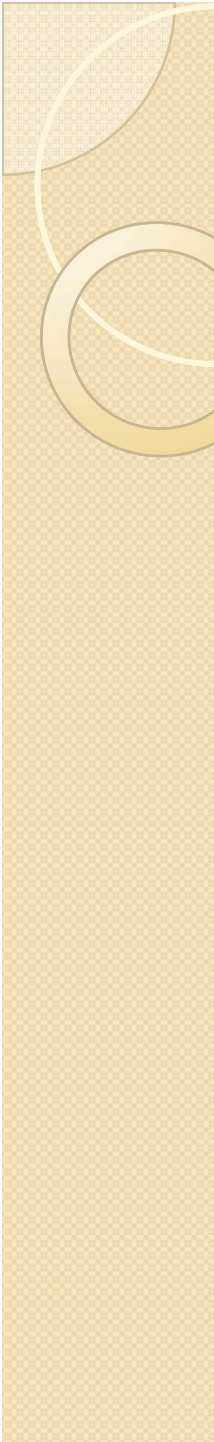
- **K**now that inquiry is a critical component of science (NSES, pg. 214)
- **U**nderstand inquiry is a process, not a lock step method
- **D**esign experiments with students using the 4 question strategy

#1 What did your paper airplane do?





#2 If we were going to design an experiment around paper airplanes, what materials would we need?



#3 How can we change the materials to affect what the paper airplane does?



#4 How can we measure the response of the change?

Designing the Question

- I am going to investigate the effect of _____ on _____.



4 Question Strategy

- Tool to use to help students “think” through the design process
- Allows students to brainstorm additional ideas for experiments
- Can start anywhere in the process