From Cookbook to Experimental Design

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Know that inquiry is a critical component of science (NSES, pg. 214)

Understand inquiry is a process, not a lock step method

Design 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?
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