

**Ann's The Four Question Topic Selection Strategy**  
**Scientific Inquiry Investigation**

1. What materials or things are readily available for you to conduct experiments on-brainstorm a list? Put a star by the one that you think looks the most promising to do an experiment on.

*Chemistry                      \*PlantsAnimals*  
*Soil                              Dog                      Human Behavior*

2. How do the Plants respond or act to change?

*Get taller,                      Produce flowers and fruit      (more or less)*  
*Get bushy                      Turn different colors of green*  
*Stop growing   Die*

3. What are some things you can change to affect the response or action? Select one and this will become your independent variable. You should only have one here.

*Responds to things in their environment(music)*  
*Change soil type                                              Amount of water*  
*Amount of light                                              Fertilize*

*Produces more or less fruit or flowers*

*After doing some research Ann decided on adding a microbial soil enhancer to see if it improved jalapeno pepper production.*

4. How can you measure or describe the response or action of Plants to the change? This will become your dependent variable(s). You may have several here.

*number of peppers,    health of plant*  
*quality of peppers.*

5. You can now write your research question or problem from the items you selected above.

*Ann's research question was: How will adding different concentrations of a soil microbial enhancer affect the production of jalapeno pepper plants?*