

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. (Example: plants, seeds, water from ditch nearby, cars and ramps.)
2. How do/does the _____ (item with star from above) respond or act to change? *Examples: plants, so she wrote here-grow, produce flowers and fruit, die, responds to things in their environment.*
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. Example: Add something to improve performance, take away something or change amounts of what item needs.
4. How can you measure or describe the response or action of _____ to the change? This will become your dependent variable(s). You may have several here. *Speed or slow up growth, change time, change in quality of product*
5. You can now write your research question or problem from the items you selected above.

How does changing _____ affect _____?