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| **Questions** | **Person responsible for supplying** |
| **Self** | **Family/Friends** | **School** |
| Q1 – What materials are available for conducting an experiment? |  |  |  |
|  |  |  |
| Q2 - How do \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ act? (What do your materials do/help you accomplish?) |  |  |  |
| Q3 - How can I change \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to affect the action? |  |  |  |
| Q4 - How can I measure/describe the response of \_\_\_\_\_\_\_\_\_\_\_\_\_ to the change? |  |  |  |

**Q1 - What materials are available for conducting an experiment?** The more things listed the better the project will be. Choose materials that are interesting and inexpensive to find. You may be able to borrow these from your parents, school, or people in the community

 *Example: Soil, Plants, Fertilizer, Water, Light/Heat, Containers, Seeds*

**Q2 – How do \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ act? (What do your materials do/help you accomplish?** The actions that you choose will help you determine the dependent variable for your experiment. Question 4 will help you determine how you will measure your dependent variable.

 *Example: Plants grow, wilt, flower, produce fruit, die…*

**Q3 – How can I change \_\_\_\_\_\_\_\_\_\_\_\_\_ to affect the action?** Responses to this question will become possible independent variables. The longer your list, the more choices you will have. After choosing your independent variable(s), remember that all of your other variables need to be kept constant in your experiment.

 *Example: Amount of water, pH of water/soil, spacing, Kind, container shape/size, location*

**Q4 - How can I measure/describe the response of \_\_\_\_\_\_\_\_\_\_\_\_\_ to the change?** This explains how you will measure or describe the dependent variable identified in Q2.

*Example: Count the number of leaves, Measure the length of the stems, count the number of flowers, measure the rate of growth…*