

Table 1.2

Sample Preliminary Research Ideas on the Topic “Seeds”

Entity to Study: Seeds

What I could manipulate or change:

- amount of sunlight
- quality of sunlight (color or opacity)
- size or material of container
- temperature and humidity
- amount of water

What effects I could look for (things to count as well as describe):

- seedling growth
- speed of germination
- # of new leaves
- # of leaves per stem
- root length
- speed of root growth
- color of seed, root, stem, and leaves
- health of seedlings

Knowledge, tools, and skills I would need to do the project:

- How does a seed germinate? What do seeds need to germinate in a controlled environment?
- What types of seeds would be good to use for a germination study?
- How do I study germination without affecting the root and stem structures? Should I plant the seeds in soil or something else?