

Guiding Question 4:

Culminating Project: Replication of Mendel's pea experiment. (8.LS.10)

Mendel worked with seven characteristics of pea plants: plant height, pod shape and color, seed shape and color, and flower position and color. Your group will choose of the characteristics Mendel worked with to research and replicate. You will share your triumphs, failures, outcomes and overall learning from the experience. Here are some of the details:

- Groups will choose one of the seven characteristics (each group will have a unique characteristic, no repeats)
- Groups will research, grow, cross, and re-grow their peas
- Groups will create an observation log and record all details of their experiment (procedures will need to be shared before the experiment can begin). **THIS IS A REALLY IMPORTANT STEP!**
- Groups will also research the history of how humans have and do alter organisms genetically (specifically plants here)
- Groups will share their learning through pictures of the process, creation of graphs, reflection of their experiment, and the formation of a creative piece of work that can be shared with others.

