NASA Resources for Agriculture classes

Lesson Plan: Lunar Plant Growth Chamber Educator Guide (grades 9-12)

Students design, build and evaluate lunar plant growth chambers - while engaging in research- and standards-based learning experiences. Students participate in the engineering design process and learn how to conduct a scientific experiment.
https://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Lunar_Plant_Growth_Chamber.html

Lesson Plan:Packing Up for the Moon Educator Guide (grades 5-8)

Plant growth will be an important part of space exploration in the future. NASA scientists anticipate that astronauts may be able to grow plants on the moon, and the plants could be used to supplement meals.
https://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Packing_Lesson1_DBE.html

Videos:

- **Liftoff to Learning: Plants in Space** - An agronomist on the space station plant research team explains how researchers are trying to find a way to simplify, yet maximize the growing of plants in space.
  https://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Why_Scientists_Study_Plants.html

- **Discussion Points About Growing Plants in Space** - Viewers are asked to analyze the photographs and to discuss why the results were different for each environmental variable.
  https://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Discussion_Points_About_Growing_Plants.html

Articles:

- NASA Plant Researchers Explore Question of Deep-Space Food Crops
  https://www.nasa.gov/feature/nasa-plant-researchers-explore-question-of-deep-space-food-crops
- Kennedy's Food Production Team Holds Information Exchange
  https://www.nasa.gov/feature/kennedys-food-production-team-holds-information-exchange