

FAIRBANKS MUSEUM & *planetarium*

Space Science Investigator Badge for the Junior Group

Astronomy and Technology

Teacher: Hannah Buckner

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The following instructions represent additional resources for continued study of the topics covered in our “Space Science Adventurer Badge for the Junior Group” online class. All materials are the property of Planetarium Educator Hannah Buckner who created them. Any websites included are the property of the individual website owners and have been reviewed by a Fairbanks Museum & Planetarium educator.

Overview & Purpose

Students will be able to describe what types of technology are used in astronomy, physics, and engineering to explore the universe around us and why they are important

Objectives

- Describe some of the ways that technology has bettered the world and science
- Demonstrate understanding that technology can range from rather simple to incredibly complex, and each type can be important in science.

Highlights of this Lesson

1. Technology is essential in the world around us, both publicly and in the science world.
2. Engineers can build a variety of tools and things that can better the world and scientific exploration
3. Anyone can be an engineer, physicist, inventor, and/or scientist

Lesson Vocabulary

- Technology
- Engineers

- Physicists
- Innovation
- Invention

Materials

Will Need:

- Printer
- Markers
- <https://spaceplace.nasa.gov/>

May Need:

- Scissors
- Glue

Homework

Homework material and action description.

Activity: Become a Mission Specialist

For this activity, you will be making a travel brochure for tourists on a trip to another planet in our Solar System. Be sure to include:

- Photos or drawings
- Fun facts about the planet
- The name of the robot or lander that has already explored there
- Activities that can be done (be creative!)
- How the tourists will be traveling to their destination

You can check out NASA's Space Place (listed in the Materials section) for help and ideas as well as the Jet Propulsion Laboratory's mock-ups of vintage travel posters:

<https://www.jpl.nasa.gov/visions-of-the-future/>

Have Any Questions?

If you have any questions, concerns, or comments please feel free to reach AmeriCorps Educator Hannah Buckner at hbuckner@fairbanksmuseum.org.

