



Spaceflight Explorers is an educational project managed by the Johnson Space Center Education Office to assist museums in conducting programs. As part of this project, the Sioux City Public Museum was provided with NASA-themed resources that highlight the historic past, successful present and bright future of human space exploration.

Each kit contains a handbook (with subject overview and lesson plans) and a variety of materials to complete the hands-on lessons. Certain items such as glue, scissors, paper, etc. will need to be supplied by the user. The activities are aligned for students in grades 5-9 but can be adapted to accommodate all ages of students. Kits included are:



Rocketry - Design, construct and launch paper rockets using PVC pipes and 2 liter bottle containers.

Space Food - Review serving sizes/nutritional guidelines. Handle samples of space food and package your own using a vacuum sealer.



Space Suit - Observe effects of air pressure through experiments in hand-held vacuum chambers. Measure variations in hand strength relative to space suit materials. Examine Spacesuit swatches and brainstorm alternatives.

Sun, Earth & Moon - Detect UV light; view the sun using solar glasses; experiment with solar cells. Launch a solar bag using energy from the sun.



The E.M. Spectrum - Build a simple spectroscope and study wavelengths of various gases.

Robotics - Create robotic-like hands/arm like those used in space. Experiment with robotic senses and how they impact robot design.

To schedule a kit or for questions, contact the Museum at 712-279-6174 or email museumeducation@sioux-city.org.

