PROGRAM: Yes, It is Rocket Science! (1)
GRADE LEVEL: 1 - 3
GROUP SIZE: Max. 30
LENGTH: 50 minutes
LOCATION: At your site

OVERVIEW

Students are introduced to the history and science of rocketry and apply their understanding by building and testing their own Alka-Seltzer rockets.

BIG IDEAS

- Newton’s Third Law of Motion
- Engineering concepts and practices
- History of modern rocketry

OUTCOMES – What will the students know or be able to do at the end of the lesson?

- Explain how a force is an action and explain the resulting reaction
- Explain how a rocket works
- Identify basic parts of a rocket

Vocabulary

- Newton’s Third Law of Motion
- Thrust
- Force
- Drag
- Action
- Nose cone
- Reaction
- Fin
- Fuselage
- Nozzle

Extended Learning

At the Museum:
- Spaceflight Academy Exhibit: explore what it takes to leave the Earth and set out into the solar system
- Space: Exploring the New Frontier: learn about the early days of space exploration
**Standards Supported** – NGSS/CCSS/21st Century Skills

**Next Generation Science Standards (NGSS)**


**Common Core State Standards (CCSS)**

- ELA: Speaking & Listening: CCSS.ELA-Literacy.SL.1.1(a, b), CCSS.ELA-Literacy.SL.1.3, CCSS.ELA-Literacy.SL.2.1(a, b), CCSS.ELA-Literacy.SL.2.3, CCSS.ELA-Literacy.W.2.8, CCSS.ELA-Literacy.SL.3.1(b-d), CCSS.ELA-Literacy.SL.3.3

**21st Century Skills**

- Creativity and Innovation
- Critical Thinking and Problem Solving
- Communication and Collaboration

**Reservations**

For reservations, please call **206-768-7175** or email: outreach@museumofflight.org.
For grant assistance, please visit [www.museumofflight.org/education/grant-assistance](http://www.museumofflight.org/education/grant-assistance).