THE PERIODIC TABLE OF EDUCATION

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
- Force
- Action
- Reaction
- Thrust
- Drag
- Nose cone
- 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

RESERVATIONS

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