



BrainSTEM Learning Specialists Astronautical Aerospace Engineering (6 weeks)

Description: Aerospace engineering involves the design and construction of planes and space shuttles. Aeronautical engineering covers crafts that stay inside the Earth's atmosphere (such as commercial planes) while Astronautical engineering covers craft that leave the Earth's atmosphere (theory and practice of navigation beyond Earth's atmosphere, such as space shuttles).

In this program, the specialist and managers will learn about the fundamentals of Astronautical industry discovering about aerodynamics; gravity; velocity; acceleration; forces to lift, drag and thrust objects; aerodynamics like Bernoulli principle; and space environment characteristics. They will use math to improve their results; will discover about the importance of the materials in this engineering branch; and use his or her creativity and curiosity to design, build and test their own prototypes at the same time they have fun.

Program Details:

- Grade 2-6, boys and girls
- 3:15-4:45pm, Gym
- Dates: Friday- Sept. 15, 29, Oct. 6, 13, 27, Nov. 3rd- 3:15-4:15pm in the Gym (*no classes Sept. 22 & Nov. 20th)
- Cost: \$180 + GST for 6 x 1.5 hour sessions