Careers in Science

Mrs. Reynolds

7th Grade

Welcome to Careers in Science. This trimester we will be focusing on a series of steps engineers use to arrive at a solution called the *design process*. The design process focuses on developing effective solution to problems. Students will work through a challenge by brainstorming, asking question, designing, building, testing, evaluating, and redesigning.

In addition to learning problem solving techniques, the class will also emphasize creativity and ingenuity.

The curriculum that I have chosen for the trimester comes from Design Squad Nation in collaboration with NASA. We will also use Engineering is Everything and Teach Engineering, in addition to periodic Engineering Challenges. Below you will find the titles of the various teaching materials I will be using.

Literature

Mission: Solar System – Space based engineering challenges to inspire a new generation of engineers.

On The Moon – More space based engineering challenges designed to inspire students

Invent It, Build It – Invention, Making the World a Better Place

Design Squad – Hands on engineering challenges to bolster your electricity, sound, and force knowledge

Additional literature may be used to supplement the class curriculum.

Websites

[www.pbskids.org/designsquad](http://www.pbskids.org/designsquad)

[www.solarsystem.nasa.gov/yss](http://www.solarsystem.nasa.gov/yss)

[www.nasawavelength.org](http://www.nasawavelength.org)

[www.nasa.gov](http://www.nasa.gov)

[www.pbskidsgo.org](http://www.pbskidsgo.org)

[www.pbs.org/wgbh/nova/sciencenow](http://www.pbs.org/wgbh/nova/sciencenow)

[www.engineeryourlife.org](http://www.engineeryourlife.org)

[www.teachersdomain.org](http://www.teachersdomain.org)

additional websites may be utilized to supplement the class curriculum.

Media/Video

Mythbusters

pbskids.org/designsquad/links/solarsystem

United Streaming – science/math videos available to teachers

Learn 360 – science/math videos available to teachers