

Teacher Resources

Aerospace Technology I (8487)

Instructional Resources for Aerospace Technology

- **Federal Aviation Administration (<https://www.faa.gov/>)**
The FAA site contains information helpful to students. Visit the Aviation and Space Education section (<http://www.faa.gov/education/>) for additional resources for classroom use.
- **Mars One (<https://www.mars-one.com/>)**
Mars One is a non-profit organization that intends to establish a human settlement on Mars. The site summarizes the aerospace technology that the mission will require and outlines its feasibility and risks.
- **NASA (<https://www.nasa.gov/>)**
The site offers the latest news on NASA projects and missions, as well as resources for both educators and students.

U.S. Department of Transportation: K-12 Education and Training

The Center for Transportation Workforce Development (https://www.fhwa.dot.gov/innovativeprograms/centers/workforce_dev/education_professional_development.aspx) supports efforts to build awareness and interest in future careers in transportation among K-12 students. Programs and products help provide the skills necessary to succeed as members of tomorrow's transportation workforce.

Design Brief: Exploring Aviation History

CHALLENGE:

Students will research and present on aviation history. Each group of students will be assigned a different segment of aviation history (of six). The instructor can add additional segments (e.g., balloons, gliders, myths) as needed.

OBJECTIVES:

Students will work in groups of two, presenting on historical events and their economic and social effects. Presentations should

- explore the progression of aviation technologies
- draw connections to any effect(s) on economy, war efforts, communication, transportation, etc.

MATERIALS:

Materials needed include

- Internet
- computer
- projector.

SECONDARY AREA:

Exploring History

Steven Wagner, Chesterfield County Public Schools, Lloyd C. Byrd High School