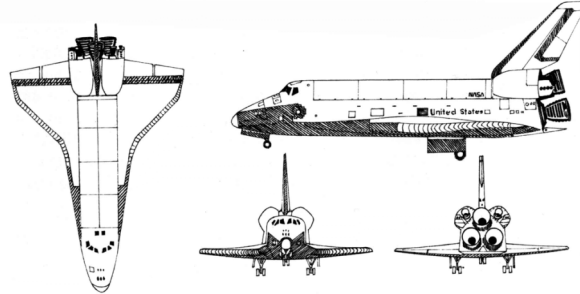


## Unit 4 - Activity 2

### Designing an Exhibition on Aviation History



### Challenge

All groups must research the way humans have taken to the skies over the course of history. Each group must choose one topic such as gliding, hot air ballooning, airplane flying, parachuting, rocket flight, or kite flying. Groups must work closely with each other so that, on completion of the project, the class can present a coordinated exhibition of the history of aviation to the whole school.

#### Challenge Statement:

*Design and build an interactive display about one major aspect of aviation history. The exhibit must include one animated feature operated by either a pneumatic or hydraulic system.*

#### Materials:

- a range of different sized syringes
- plastic tubing
- two-way and three-way connectors
- masking tape
- art materials
- corrugated plastic sheet or large sheet of card stock
- wood glue
- appropriate photos and graphics

# The Design Process

Plan your designs using your portfolios.

## 1. What is the problem?

Discuss the challenge on page one. Decide what topic you are going to choose.

## 2. Brainstorm solutions.

When you have compiled a lot of information, brainstorm ideas for the design of your display.

What ideas do you have?

How are you going to organize the information?

- Will you create a timeline showing different events in history?
- Will you show portraits of important pioneers?
- Will you use downloaded information?
- Will you use models?

What will your moving exhibit look like?

**Consider different designs.**

Write and sketch ideas for your display. As a group, discuss what shape and size you want it to be. Will it be a wall display or on a tabletop display? How will you create a background for your display?

## 3. Create the solution you think is best.

- You must work as a well-organized team. Each member of the team must be responsible for a part of the display.
- Plan how to use your time.
- How many moving parts will it have?
- Will it be a pneumatic or hydraulic system?
- Plan where your moving exhibit will be positioned.
- Organize your materials.
- Meet regularly as a team to discuss progress.
- Help one another.
- Discuss each other's work.

#### 4. Test your solution.

When you have made your moving exhibit test it to see if it works well. Make sure the animated feature is attached firmly to the display.

#### 5. Evaluate your solution.

When you have completed the display you must make an evaluation of the team's efforts.

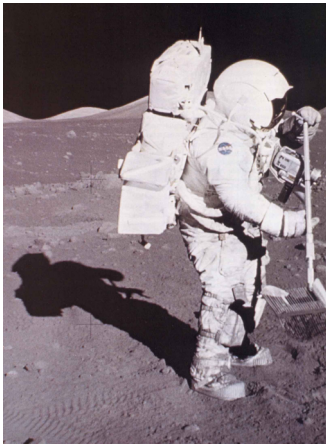
- Are you proud of your design?
- Does it look good?
- Does the moving exhibit work well?
- Are you pleased with your artwork?
- Are you pleased with how the text matches the illustrations?
- How well do you work as a team?

#### Finally - Modification

Discuss how your display looks. Make changes if they are necessary.

#### ✚ Portfolio Work

Record what you have learned and understood from this unit of work in your portfolio.



Exploring the Moon's Surface 1969