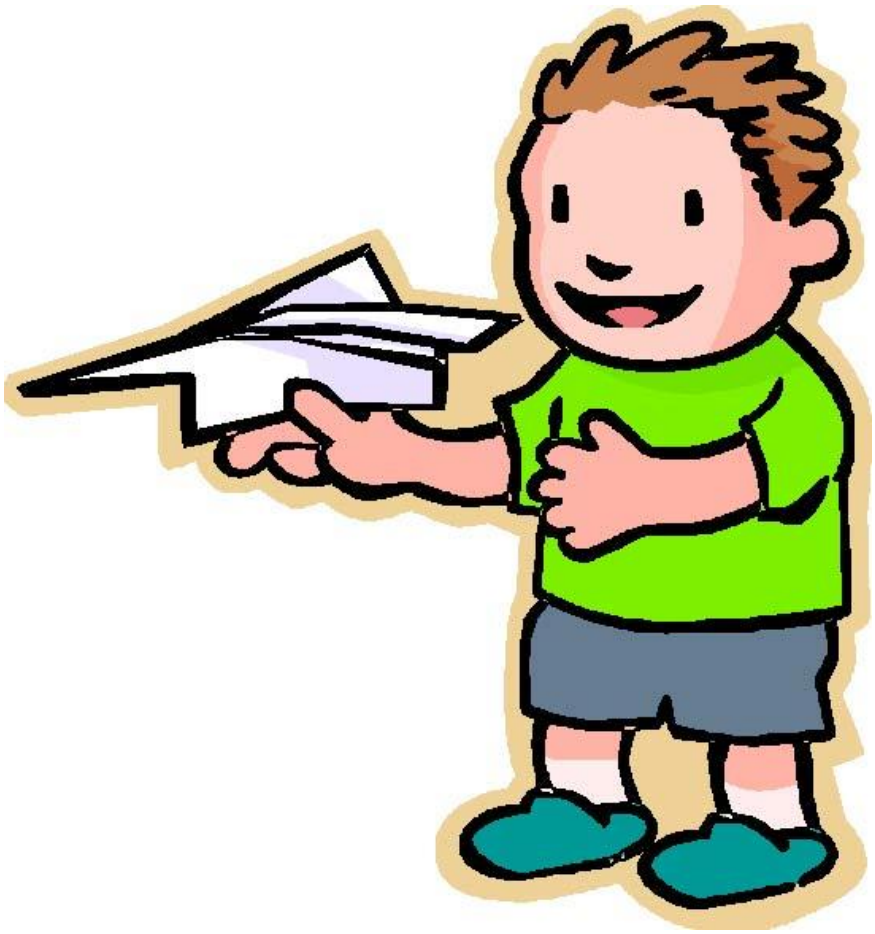
DESIGN A PAPER AIRPLANE EXPERIMENT



Includes:

- **Lesson Plan**
- **Assignment Sheet**
- **Experiment Graphic Organizer**
- **Venn Diagram**
- **Link to paper airplane templates**

DESIGN A PAPER AIRPLANE EXPERIMENT

OBJECTIVES

- Analyze how structural component react to stresses.
- Create procedures for constructing and testing components of a structure.
- Explore the benefits and limitations of structures
- Design and construct objects.

DURATION: 2 classes

MOTIVATIONAL SET:

1. Explain the activity through the assignment handout, showing examples of airplanes made using templates from http://www.funpaperairplanes.com/index.html .

LESSON:

2. Students work on their paper airplanes. Then the students complete the “Venn Diagram”.
3. Students conduct their experiment, completing all but the “conclusion” section of the “Experiment Form”.

CONCLUSION:

4. Students complete the “conclusion” section of the “Experiment Form”

EVALUATION:

- Experiment Package (15 points)

MATERIALS:

- Assignment Sheet
- Venn Diagram
- Experiment Sheet
- http://www.funpaperairplanes.com/index.html .(for the paper airplane templates)
- A lot of 8”x11” white paper

DESIGN A PAPER AIRPLANE PROJECT

GOAL: You and your partner will create two different models of paper airplanes and then conduct an experiment to discover which design flies the longest.

PROCEDURE:

1. Choose two paper plane templates and make your paper airplanes.
2. Complete the Venn diagram chart comparing the similarities and differences of the paper airplanes.
3. Complete the "Question", "Hypothesis", "Materials" and "Procedure" sections of the experiment handout.
4. Conduct the experiment.
5. Complete the "Data Collection" and "Conclusion" sections of the experiment handout.

EVALUATION:

Venn Diagram	=	3 points
Experiment handout	=	10 points
Participation Mark	=	2 points
Total	=	15 points

DATE:_____

NAME: _____

EXPERIMENT SHEET

QUESTION:

HYPOTHESIS:

MATERIALS:

SAFETY:

PROCEDURE:

DATA:

CONCLUSION:

Was my hypothesis correct? YES NO

What can I conclude from my results?

Is there anything I would do differently?

VENN DIAGRAM