 Activity 21: Parts and Movements of Airplanes

**Question**

How do the parts of an airplane control its movements in the air?

**Resources**

Access the website links from the online course.

 [Airplanes](http://www.learnalberta.ca/content/setf/html/StudentResource/source/Welcome.html) (Focus on Topic 3 Lessons 2 and 3)

**Instructions**

**1.** Go to the **Airplanes** website.

**2.** First go to the **Hanger 3** and read **Lesson 1: Forces Acting on an Airplane**. Click the **Test**

**Your Understanding** link for each force.

**3.** When you get to **Lesson 2: Parts of an Airplane**, read each section (Fuselage, Engine, Wings, and Tail) and use the information to add to your worksheet. Be sure to click the **Test Your Understanding** links for each force.

**4.** When you are done learning about the airplane parts, do the **Parts of an Airplane Review** to see if you remember the parts. Play the game linked on that page if you need to review.

**5.** Next, click the arrows at the bottom to read **Lesson 3: Movements of an airplane**, and use the information to add to your worksheet.

**Observations**

**Parts of a Plane Worksheet**

**Fuselage**

1. What does it do?

2. What else is attached to it?

3. Why are they shaped differently?

**Engine**

4. What does it do?

5. What kinds of engines are there?

**Wings**

6. What do they do?

7. What determines the lift produced be the wings?

8. What do the ailerons do?

9. What do the flaps do?

**Tail**

10. What does the tail do?

11. What do the various parts of the tail do?

 Horizontal Stablizers:

 Vertical Stabilizers

 Rudder:

 Elevators:

**Movements of an Airplane**

12. What are control surfaces?

13. What do control surfaces do?

14. Describe three motions of an airplane.