



## Activity 21: Parts and Movements of Airplanes

### Question

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

### Resources

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Access the website links from the online course.

- [Airplanes](#) (Focus on Topic 3 Lessons 2 and 3)

### Instructions

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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 by 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 Stabilizers:
	•	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.