



PLTW Flight and Space Virtual Learning

**8th Grade/Parts and
Functions of an Airplane**

April 24, 2020



8th Grade/Flight and Space
Lesson: April 24, 2020
Day 1 of 2

Objective/Learning Target:
**Students will be able to identify the parts and functions of
an airplane.**

Warm-Ups:

Spend 2 minutes reviewing what you know about the parts of an airplane. List as many names of parts as you can. Record your quick write on your [Cornell Notes](#) or notebook paper for the day.



Lesson Introduction/Background Information:

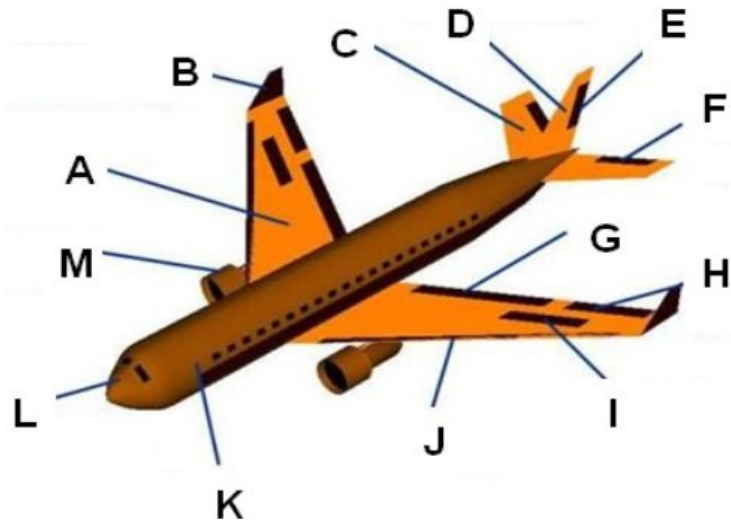
We will be learning all the basic parts of an airplane. Each airplane part plays a role in affecting the forces of flight and the motion of the plane to make the airplane fly to its destination.

Open the NASA slide called [Airplane Parts Definitions \(with text\)](#) and read the explanation of the parts of an airplane and their functions. Use this information to complete your first practice on the next slide.

	Airplane Part	Function
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		

Practice:

In the chart, label the parts of an airplane and their function. You can also use the [Parts of an Airplane file](#) to record your answers.



Practice:

Use these resources to help you Describe the following aircraft motions in your notes from today.

[How Things Fly](#) [Airplane Parts Definitions \(with text\)](#) [Aircraft Yaw Motion](#)
[Aircraft Pitch Motion](#) [Aircraft Roll Motion](#)

1. Pitch: _____
2. Roll: _____
3. Yaw: _____
4. Dive: _____
5. Climb: _____
6. Lift: _____

Self-Assessment:

Do a 2 minute Quick Write reviewing what you learned about the parts of an airplane. List as many names of parts and motions as you can. Record your quick write on your [Cornell Notes](#) or notebook paper for the day. How many more were you able to list after the exercise?



Extend Your Learning/Continued Practice:

Learn more about airplane motion at [3-axis control](#)

Learn about more [parts on an airplane from Fly8MA](#)