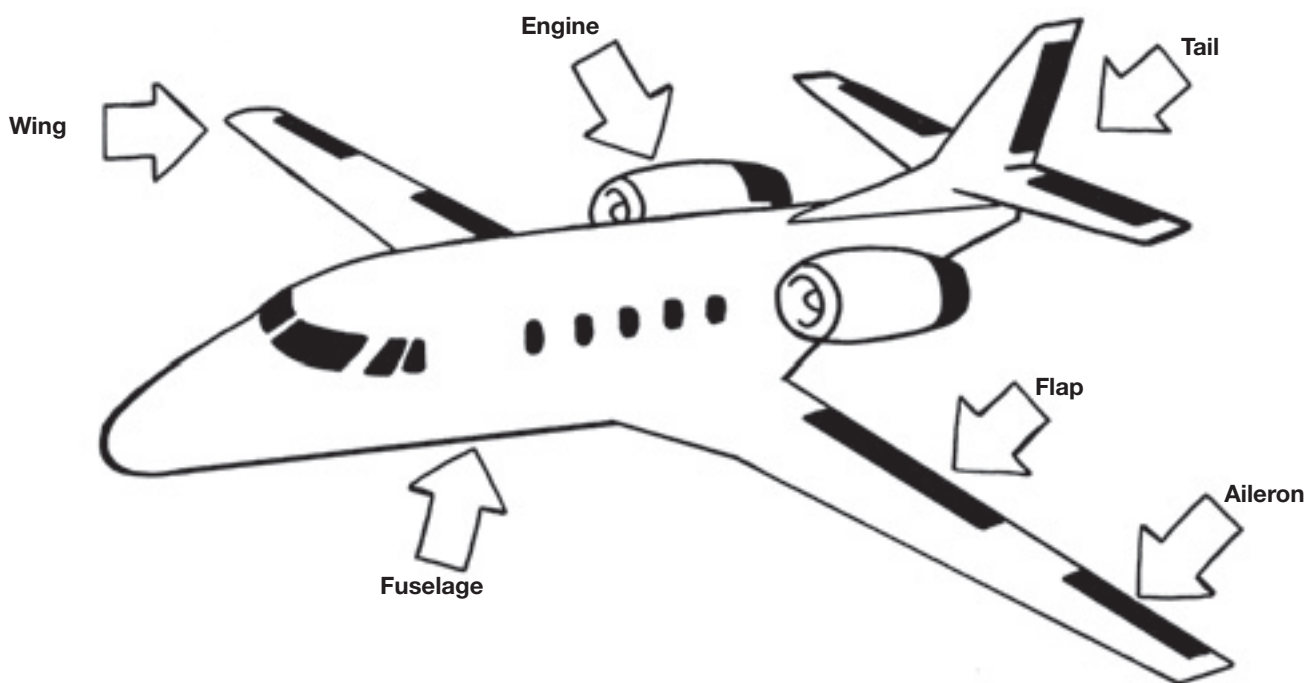


## Diagram/Scale Drawing

- A **diagram** is a special drawing with labels. Usually a diagram shows how something is made, how an object's parts relate to one another, or how something works. Sometimes a diagram must be studied in a certain order to be understood—left to right, top to bottom, or bottom to top. Often diagrams contain text that explains something about the object being illustrated.
- A **scale drawing** is a diagram that uses a mathematical scale. For example, one inch on a scale drawing might be equal to one foot on the actual object in real life.

**Directions** Study the diagram of an airplane below.



### DEFINITIONS

- Fuselage:** This is the body of the airplane, shaped like a tube. The front landing gear, or wheels, can be folded into the fuselage while the airplane is flying.
- Engines:** These make the airplane move forward. They are very powerful.
- Wings:** The wings are designed to provide lift.
- Flaps:** The flaps are extended to provide additional lift during take-off and put away during the flight to reduce drag.
- Ailerons:** These are used to turn the plane while flying.
- Tail:** The three wings on the tail help move the plane up or down, and left or right.