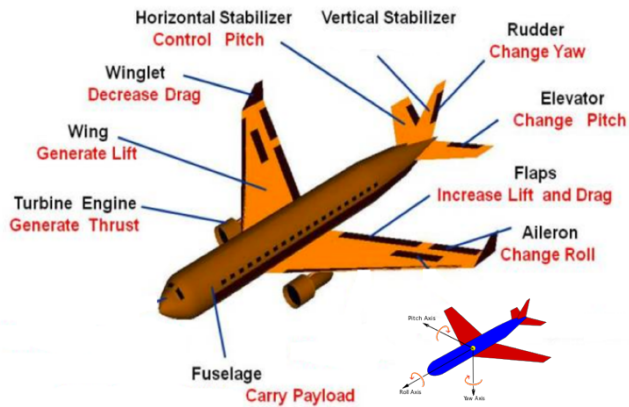
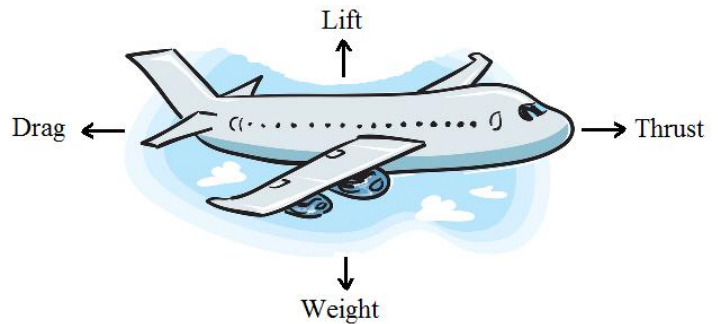


ACTIVITY: BUILD A PLANE, MARCH 2018

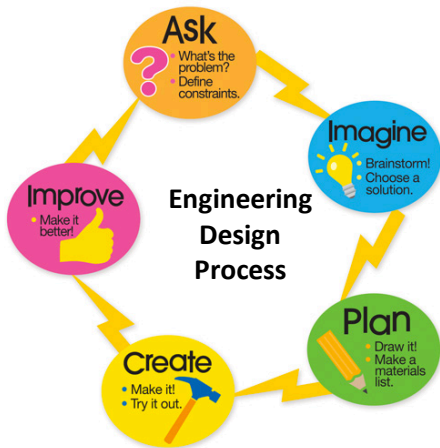
◆ HOW DO AIPLANES FLY:



Airplane parts and functions



Force Body Diagram of an Airplane



◆ GOAL:

You are a team of engineers given the challenge of creating a glider out of simple materials that can fly straight as far as possible. You may use any materials provided to you and will first work as a team to develop a template for your glider.

◆ LIST OF MATERIALS:

Corrugated Cardboard, Thin Cardboard, Duct Tape, Scissors, Sharpie, Ruler, Ball-point pen, Binder Clips, Paper clips, Cardboard Cutter.

◆ PRO TIPS:

- Symmetry of the plane is very important.
- Center of gravity of plane should be near the wings and can be adjusted by balancing weights.
- Give some thought to the shape of the wings and if you could incorporate the airfoil shape.

SOME EXTRA DESIGNS

