

How Do Aeroplanes Fly?

We have been taking advantage of how we can get to one side of earth to another, by using help but do we know how the machines operate/fly? Planes are machines that are a big transport around the world. The first plane was made on December 17th 1903. There are four forces of flight. Lift, weight, drag and thrust.

Thrust is occurred by the big engines/propellers located on the wings. It also helps create the force that keeps the plane up in the air, lift. For example You give a Frisbee thrust with your arm. Thrust has to overcome drag for it to go forward.

Drag is the friction that resists the motion of an object going the opposite direction. Drag is caused by everything of the plane. It is the force that causes the plane to slow down. If a plane want's to take off the drag needs to be lower than the thrust.

Weight is the force of gravity. It acts in a downward direction toward the center of the Earth. Weight keeps the plane down on the earth. For example if the lift doesn't overcome the weight it will accelerate downwards.

Lift is the force that causes the plane to fly and keep in the air. That makes air flow rapidly over the wings. It throws the air down towards the ground, creating an upward force called lift. It overcomes the plane's weight and holds it in the sky.

As you can see planes are not just a transport they are big interesting machines. They are used for war, transport and for special occasions. Also the first plane was flown in Kitty Hawk North Carolina!