

While the propeller pulls the airplane forward, another force called **drag** holds the airplane back. Air can't flow quickly around large objects. Objects must be streamlined, or **aerodynamic**, to lessen the drag and travel through the air faster.



This airplane is streamlined (thin) so there is less drag.



This airplane is not streamlined because it is fatter. A lot of drag will occur so the airplane will not travel as fast.

Airplanes that do not have propellers use jet engines. The fuel burned in a jet engine gives off hot gases. The gases shoot out the back of the engine in a stream called a jet. The jet stream pushes the airplane forward.

In order to make an airplane fly, the **lift** must be greater than the **gravity**. The **thrust** must also be greater than the **drag**. It takes many engineers and scientists to make this happen.

