

# The Sound Barrier

The sound barrier is a speed barrier that judges plane's actions by the speed they are going. To break the sound barrier you have to go 1,220 kph. The shock wave that is made by an airplane moving at a supersonic speed makes a shocking change in air pressure. The fastest plane ever is the SR-71 blackbird. This is one of the most difficult barriers to go through because the high-speed flight makes heat through friction for eg. Rub your hands together really hard you will feel that they are getting hotter. That is friction. Because of that, the surface of the plane's temperature gets higher then the safety limit for the structure of the aircraft.

## Breaking the Sound Barrier

When you knock off something it vibrates making the air vibrate which causes the sound of the bang. The air vibrates to your eardrums and sends a message to the brain and the brain tells you. That is sound.



## Chuck Yeager

Chuck Yeager was born in February the 13, 1923. He was born in Myra in West Virginia. He grew up in Hamlin. When he finished High School, he joined the U.S. Army Air Corps. He fought in World War II. Chuck's plane was shot down over enemy lines in 1943, but with the help of the French he made it to Spain, which was neutral. Chuck was not allowed to fly again, but he made an appeal to General Dwight D. Eisenhower and he was allowed to fly again in World War II. He stayed in the Airforce teaching youngsters to fly. In 1947 he was asked to test a rocket-powered X-1 fighter plane. Yeager broke the sound barrier on Oct. 14th 1947.

