

Hangar 3,4,5 Trail

H3

Find the McDonnell Douglas Phantom FGR2

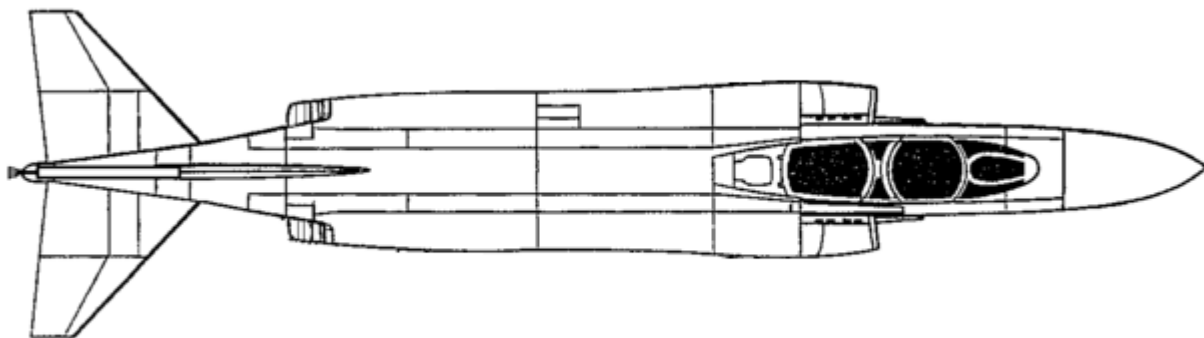
H4



The Phantom was a fighter aircraft designed for high-speed flight to intercept enemy aircraft. Fast aircraft are aerodynamic, meaning they can cut through the air easily.

To make it more aerodynamic, the Phantom has wings that are swept back. This, alongside its pointy shape, helps it to travel at speeds faster than sound.

On the picture below we have left the wings off the Phantom. Sketch the wings back on.



H3

Interceptors like the Phantom have to be very fast. They usually have wings that are swept back and have a pointy shape. This means there is less air resistance to slow them down.

H4

Not all aircraft need to be fast. Some aircraft, including helicopters, do jobs which require steady endurance or high accuracy position, such as transporting large amounts of people/goods or rescue missions in dangerous, uneven areas.



We have three helicopters in Hangar 4. List them in order of their top speed, from fastest to slowest.

Helicopter

Speed

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Bomber aircraft like this one took part in missions over Germany during the Second World War.

How many missions did our Lancaster fly?

Each Lancaster needed a crew of seven people. Not just a pilot.



Other than the pilot, name three of the jobs for Lancaster crew members? (You can use the big screens near the front and rear of the plane to help you)

The Lancaster that dropped the Bouncing Bombs was made by the same company that made the largest aircraft in this Hangar.

Find the Avro Vulcan Bomber



The Avro Vulcan was designed to carry nuclear weapons but luckily never used them.

Take a look at the front of the Vulcan. What is missing compared to earlier aircraft? Hint – it propels the aircraft through the air.



The Vulcan is a jet aircraft. It uses four jet engines to gain speeds over 600mph. Air is sucked in through the intakes in the front of the wings, mixed with fuel, then ignited. The explosion pushes air backwards at high speed, moving the aircraft forwards.

Jet engines use a lot of fuel. Sometimes so much fuel is needed that they need to be refueled while still flying.

The RAF uses flying tankers like the Victor that use long hoses to refuel other aircraft in flight. The fuel is pumped through fuel probes in to the aircraft.



Where on an aircraft can you usually find the fuel probe?

