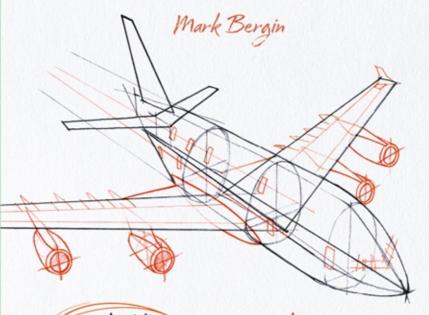
HOW TO DRAW

PLANES



Easy to follow
AMAZING ART!
Step-by-step

HOW TO DRAW

PLANES

Mark Bergin





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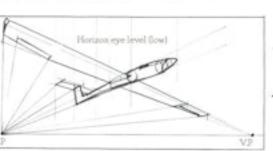
Making a start

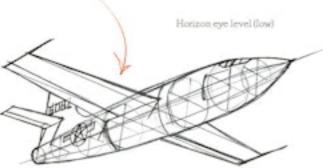
Learning to draw is about looking and seeing. Supermarine Spitfire Taking your Cessna sketchbook to an Keep practising, and spend time getting to aviation museum know your subject. Use a sketchbook to make is a great way to quick sketches whenever inspiration hits. Start study and draw planes in real life. by doodling and experiment with shapes and patterns. There are many ways to draw; this book shows one method. Visit art galleries or look at artists' drawings, see how friends draw, but above all, find your own way. Pitts Special Grumman's X-29 mic mining Remember that it is practise that will make the drawing work, if it looks Airbus A380 wrong, start again. Keep working at it - the more you draw, the more you will learn.

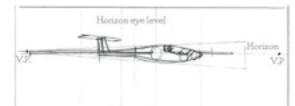
Perspective

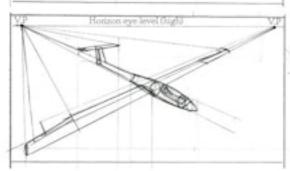
If you look at a plane from different viewpoints, you will see that the part of the plane that is closest to you will look larger, and the part furthest away from you will look smaller. Drawing in perspective is a way of creating a feeling of space and three dimensions on a flat surface.

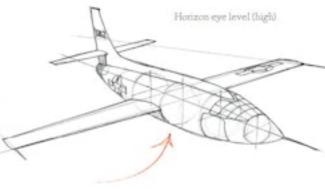
Note how the circular construction lines are larger the nearer they are to your viewpoint. The circles are smaller at the rear of the plane because that is furthest away from your viewpoint.



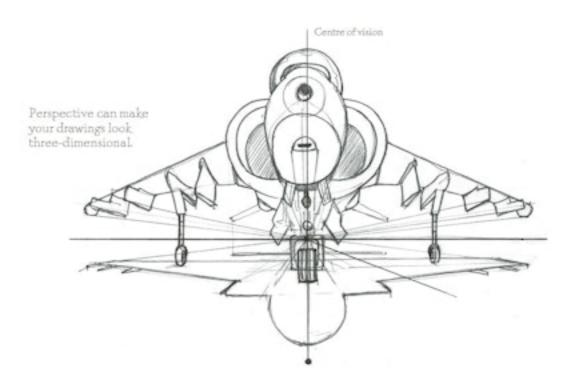


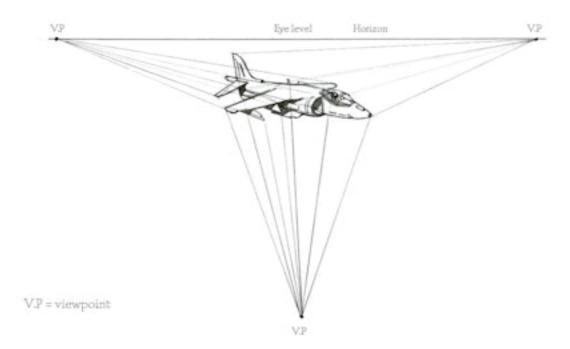






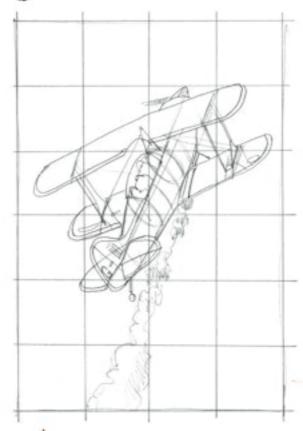
Note how the circular construction lines are larger the nearer they are to the centre of the plane.



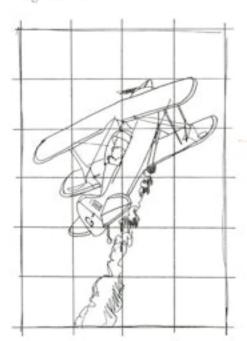


Using photographs

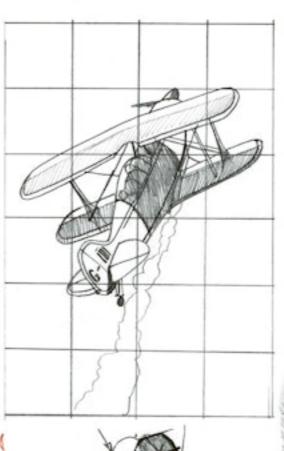
It is important that you consider the position of your drawing on pape. This is called composition. Drawing from a photograph can help you identify shape and form.







Then draw another grid on a piece of drawing paper, enlarging or reducing the size but keeping it to the same scale as the tracing. Using the grid as a guide, copy the outline of the tracing.



Use construction lines to help you work out the three-dimensional shape.

To make your drawing look three-dimensional, pay attention to how the light falls on its surfaces and shade the areas that are in shadow.



Materials

Try using different drawing papers and materials. Experiment with charcoal, wax crayons and pastels. Pens, from felt-tips to ball-points, will all make interesting marks, or try drawing with pen and ink on wet paper. Remember, the best equipment and materials will not necessarily make the best drawing. It's all about how you use the equipment. The only way to improve is to keep practising.

Pencils are graded from 6H (the hardest)through 5H, 4H, 3H, 2H to H, then B through 1B, 2B, 3B, 4B, 5B up to 6B (the softest).

Charcoal is very soft and can be used for big, bold drawings. Spray charcoal drawings with fixative (warnings ask an adult for help) to prevent smudging.

Pastels are even softer than charcoal, and come in a wide range of colours. Fixative can also be sprayed on pastels to keep the colours locked in place.

Special effects can be achieved by scraping away parts of a drawing done with wax crayons.

Lines drawn in ink cannot be erased, so keep ink drawings sketchy and less rigid. Don't worry about mistakes, as these will be lost in the drawing as it develops.

Ink





Sketching

We can't always rely on our memories, so it's important to look around and find real-life things to draw. Taking a sketchbook with you wherever you go is one of the best ways to improve your drawing skills. Learn to observe objects carefully: notice how they move, how they're made, and how they work. What you draw should be based on what you've seen.

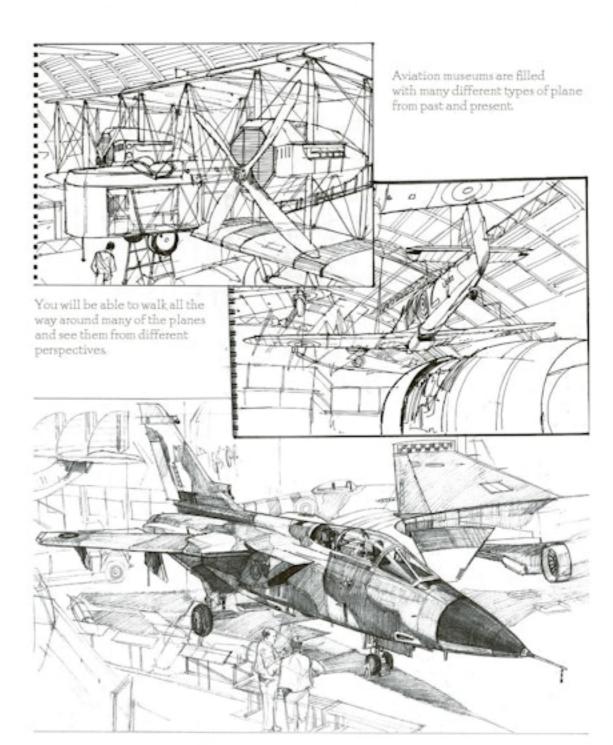
Sketching

A sketch that has taken a short time can say as much as a careful drawing that has taken many hours.



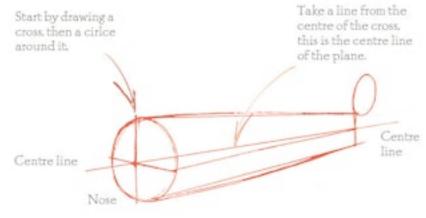
With careful shading and added details, your sketch of a model plane can look just like the real thing! Focus on capturing light, shadows, and texture to bring your drawing to life. By the time you finish, your model will appear ready for takeoff!

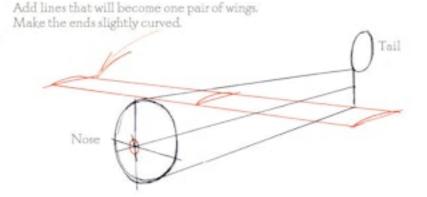
Try drawing model planes.
It will be good practice for seeing and observing. The larger the model is the better it is to draw because its proportions are better.

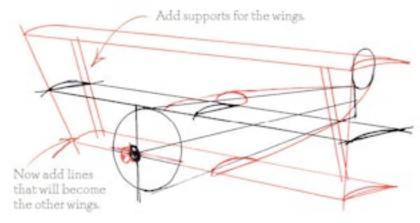


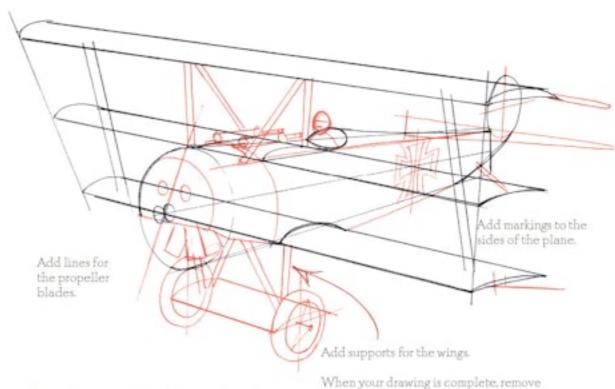
Fokker DR1 Triplane

Triplanes have three sets of wings. One of the most famous triplanes was the Fokker Dreidecker (DRI), used by Germany in WWI to battle the British Sopwith triplane. It had a single pilot and was armed with two machine guns. Its most famous pilot was Baron Manfred von Richthofen.

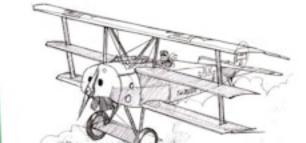








The DRI was a difficult aircraft to fly, and was regarded as a machine strictly for experienced pilots.

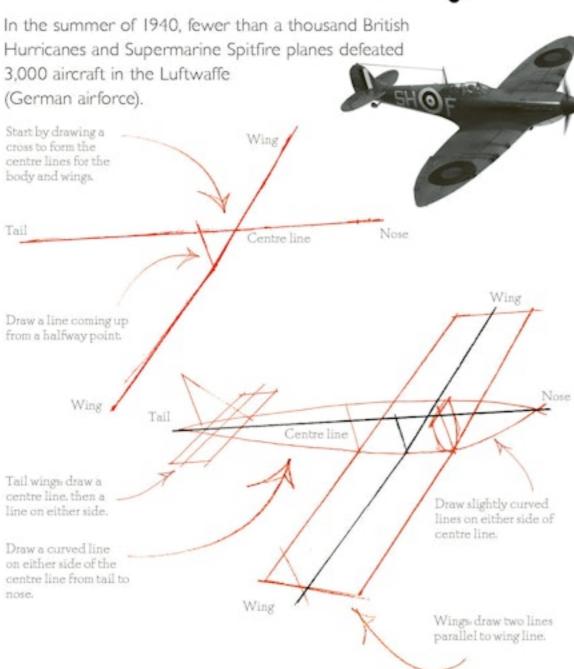


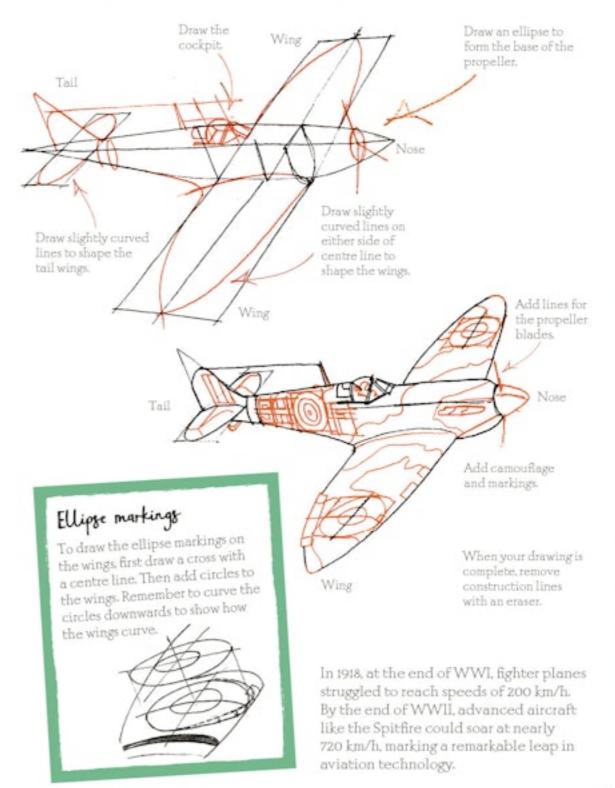
construction lines with an eraser.

Backgrounds

Add a background to create depth and atmosphere. See how the night sky behind this biplane wing makes it stand out, while shading adds realism. Don't be afraid to let your pencil marks show - they give your drawing texture and life! Baron Manfred von Richthofen was born in Breslau, Germany (now Wroclaw, Poland) and died on 21 April 1918, aged 25, in the skies over Vaux sur Somme, France. The Germans called him Der Rote Kampfflieger ("The Red Battle-Flyer"), the French called him Le Petit Rouge ("the little red") and in Britain he was known as the Red Baron.

Supermarine Spitfire

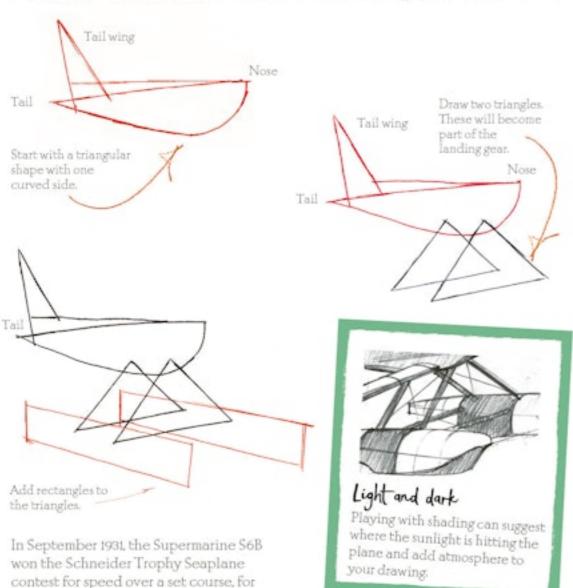


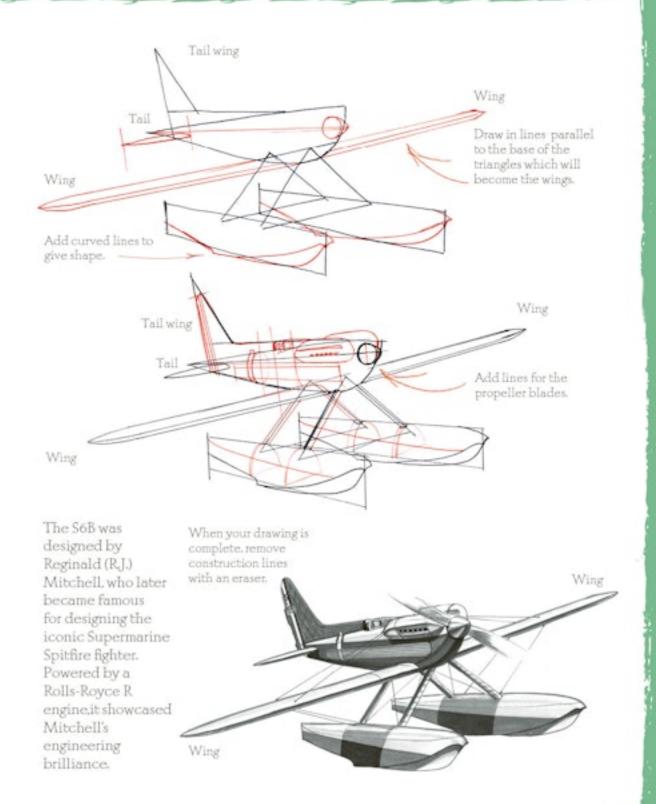


Supermarine S6B



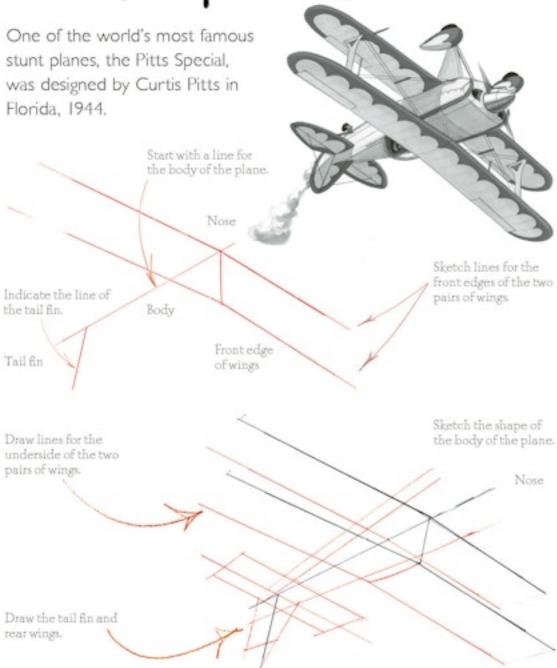
The Supermarine S6B Seaplane became the fastest aircraft on Earth in September 1931 when it achieved a record-breaking speed of 656 km/h.





the third successive year.

Pitts Special



Continuing to compete until the early 1980s, the Pitts Special won more aerobatic contests than any other type of aircraft.

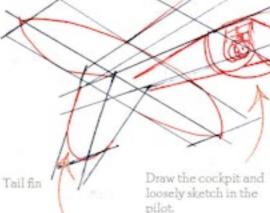


Reverse

You can often see why a drawing is not working by looking at it in a mirror.



Draw the nose cone and indicate the propeller blades. Finish drawing the rounded shape of the plane's nose.



kpit and Draw the fo h in the wing tips an rectangular

Sketch the curved shape of the tail wings and fin. Draw the four curved of wing tips and the rectangular aerofoils.

When your drawing is complete, remove construction lines with an eraser.

Blackbird

The Lockheed SR-71, or 'Blackbird', is the world's fastest jet plane, and reached a speed of 3,529 km/h (over three times the speed of sound) in 1976. It was used for spying.

line for the rear of the plane's wing.

Tail

Nose

Engine tail

Draw two parallel lines, one shorter and one longer.

Start by drawing an

angled horizontal

Tail

Make one of those lines longe so that it will reach the nose of the plane.

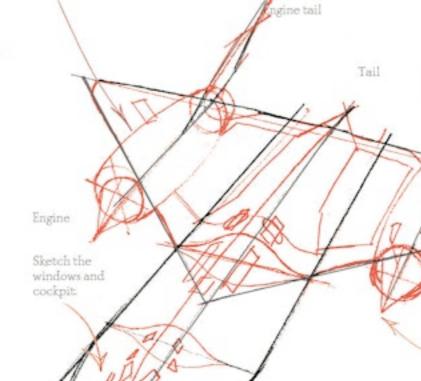
Engine tail

Draw a large triangle to form the wings.

Draw two curved lines to make the front of the aircraft.

Nose

Sketch a rectangle from the nose of the plane to the rear. Make the shape slightly wider at the Draw two triangular shapes to indicate the tails on the engines. Sketch a long oval with a circle at each end to make the shape of each engine.



engines.

Draw cone shapes

for the front of the

Engine

Engine tail

Round the sharp

corners on each

wing tip.

When your drawing is complete, remove construction lines with an eraser.

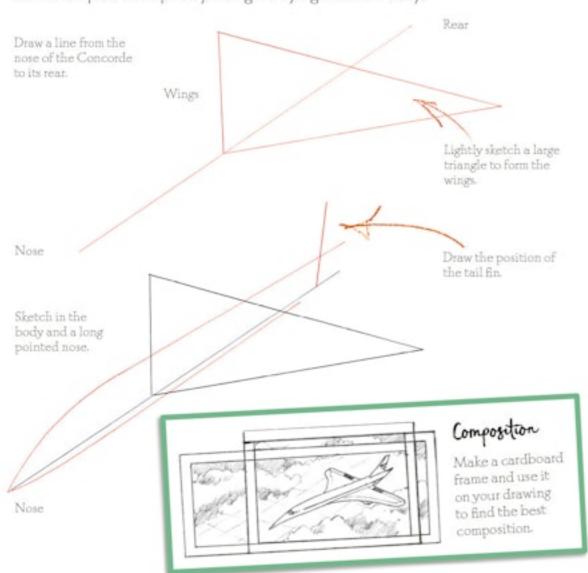
The thin skin of the Blackbird is painted with a special heat-resistant paint. The skin of the plane can withstand a temperature of over 300 degrees centigrade during flight.

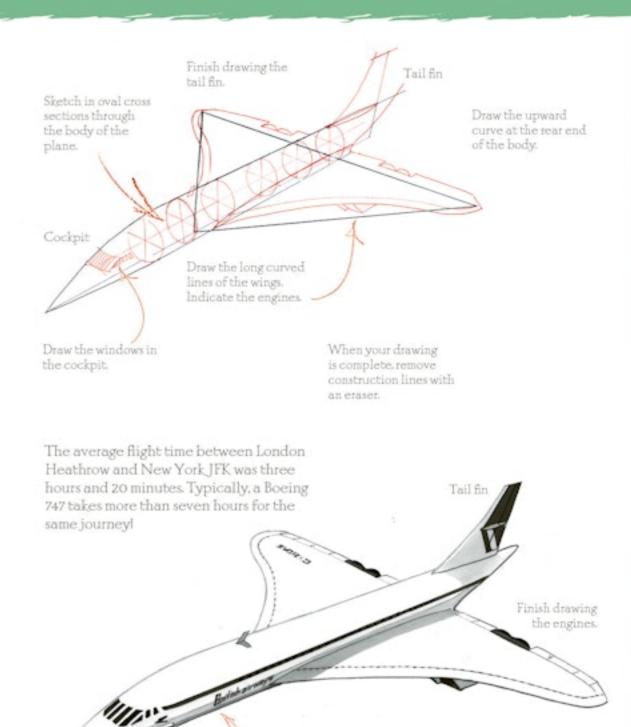
Lightly sketch the

shape of cross sections of the body of the plane.

Concorde

Concorde had four specially designed Rolls-Royce engines. These provided the extra power needed for take off and the transition to supersonic flight. It was the most powerful pure jet-engine flying commercially.





Lastly, draw the plane's markings.

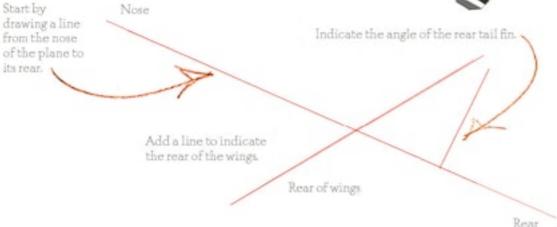
Lightly shade in areas that wouldn't receive much light on the main body and wing.

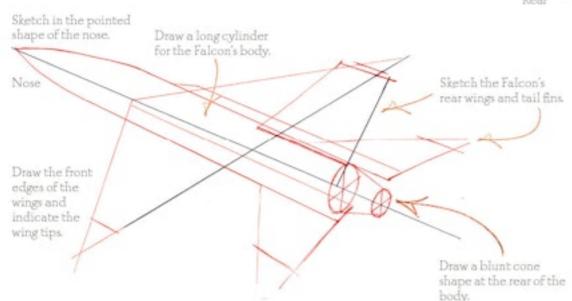
After 27 years in service, Concorde made her last flight between London and New York on 24 October 2003.

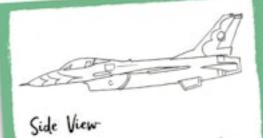
F-16A Fighting Falcon

The F-I6A Fighting Falcon is a compact and manoeuvrable fighter aircraft. It is highly effective in both air-to-air combat and air-to-surface attacks.

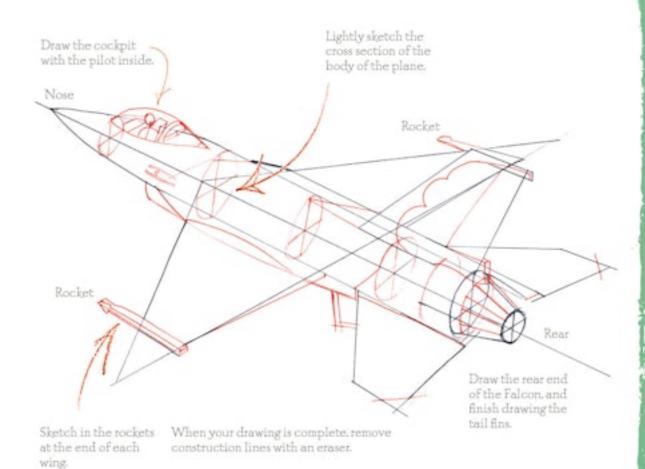








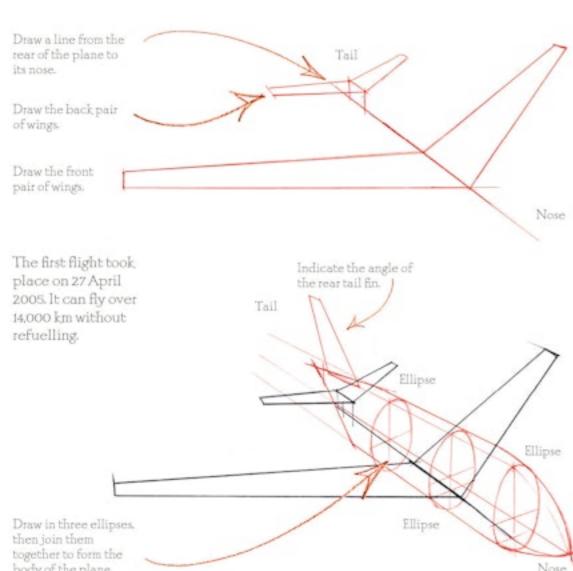
Do quick sketches of the plane from different viewpoints so you can become familiar with its basic shape. The F-16A can accurately locate targets in all weathers and detect hard-to-find, low flying aircrafts. It can also fly more than 860 km without needing to stop and refuel.

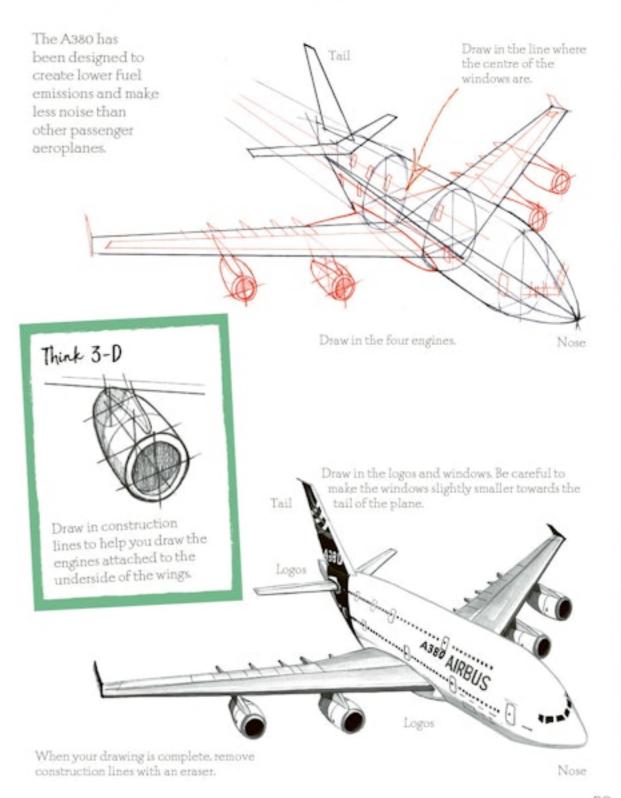


Airbus A380

The double-decker Airbus A380 is able to carry up to 853 passengers, making it the world's largest passenger carrying airliner.

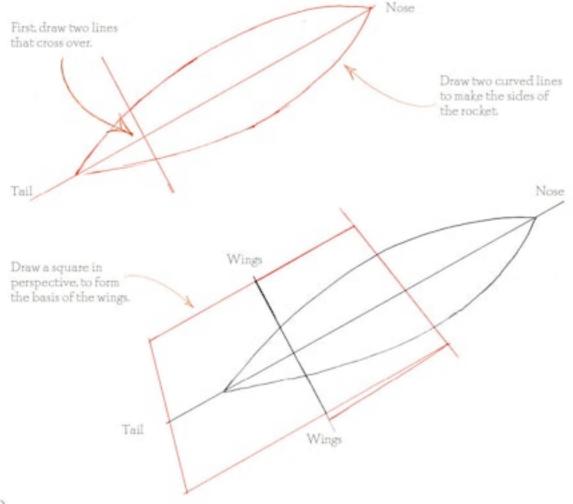
body of the plane.

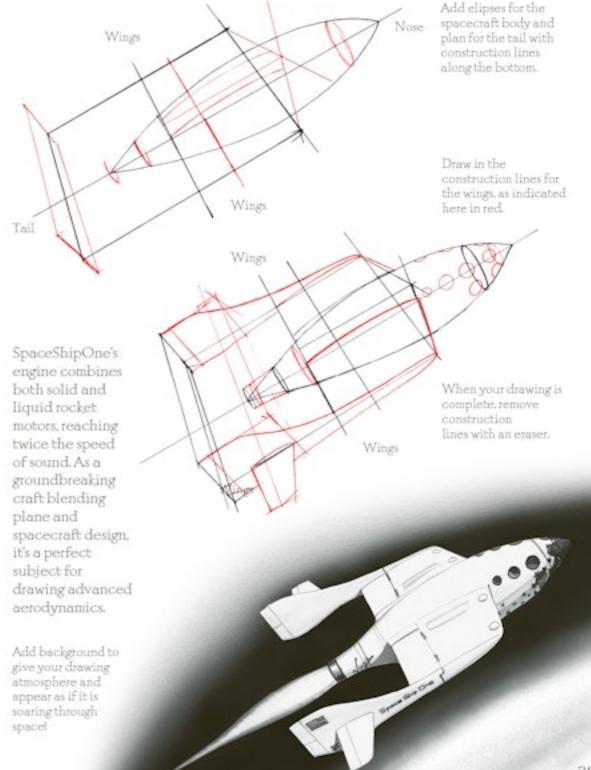




Space Ship One

SpaceShipOne made history with the first privately-funded space flight on 21 June 2004, marking a huge leap toward the future of space travel. While space tourism is still developing, SpaceShipOne remains a symbol of aviation innovation, blending the design of planes and spacecraft. Its unique shape and engineering make it an exciting challenge for aspiring artists to draw and understand how aircraft evolve."





Glossary

Chiaroscuro The use of light and dark shades in a drawing or painting.

Composition The position of a picture on the drawing paper.

Construction lines Structural lines used in the early stages of a drawing.

Fixative A type of resin used to spray over a finished drawing to prevent smudging. It should only be used by an adult.

Focal point A central point of interest.

Light source The direction the light is coming from.

Proportion The correct relationship of scale between parts of a drawing.

Reference Photographs or other images that can be drawn, if drawing from life is not possible.

Squaring up To transfer a drawing or photo accurately using square grids.

Three-dimensional An image that has the effect of making it look lifelike or real.

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