

AIR ACTIVITIES BADGE

Stage 2



Name:

Pack:

By doing these five activities, you will have completed sections 2, 4 and 5 of your Air Activities Badge Stage 2. Details of sections 1 and 3 can be found on the Scouts website.

Activity 1: Learn the different parts of an aeroplane.

1) Correctly label the aeroplane diagram below with the following terms:

Fuselage – the body of an aeroplane

Wing – the part which supports the aeroplane when flying

Tailplane – small horizontal wing at the tail of the aeroplane

Fin – the upright surface on the tail

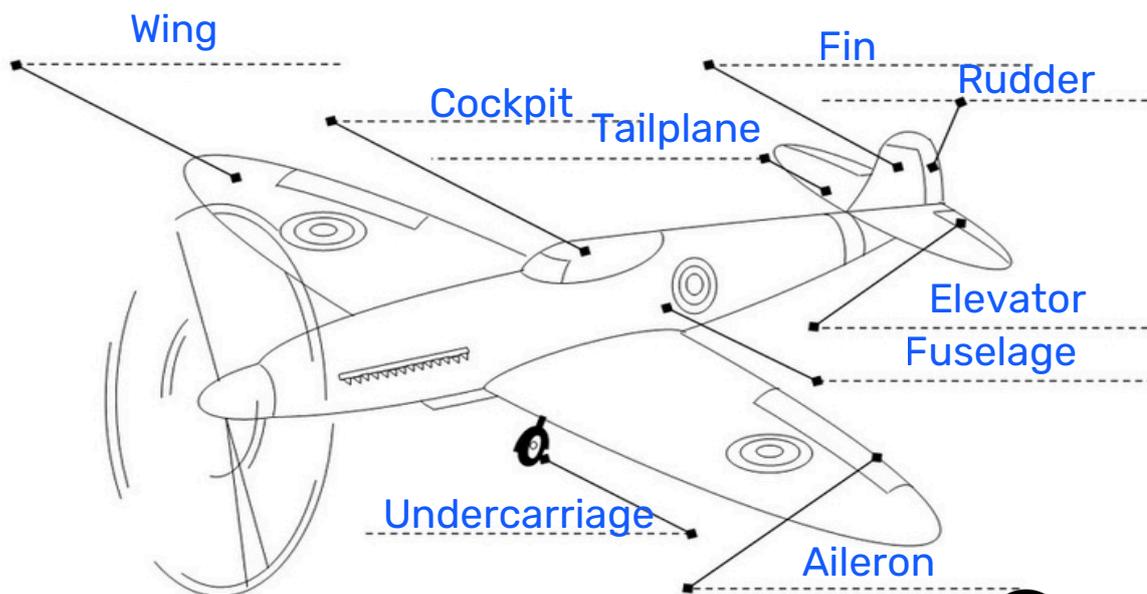
Rudder – hinged rear part of the fin which helps the pilot to steer

Aileron – hinged rear edge of the wing

Elevator – hinged rear part of the tailplane

Undercarriage – the landing gear and wheels

Cockpit – where the pilot sits



Activity 2: Airfields Can Be Dangerous Places!

Know the dangers involved in visiting an airfield. Read the statements below and tick the correct answer.

You should never drop litter, but why is it especially important not to drop litter on an airfield?

- It makes the airfield look untidy?
- Rubbish might blow off the airfield into someone's garden?
- Pieces of litter could get sucked into jet engines and damage them?

An aeroplane on the ground is taxiing towards you.

Should you...?

- Run Away?
- Stand Still?
- Lie Down?

A jet aeroplane is standing on the tarmac with its engine running. Where is safe to stand?

- In front of the jet intake.
- Behind the jet exhaust.
- To the side of the aircraft and well clear.

A winch cable, for launching gliders, is lying on the ground. Should you...?

- Leave it alone?
- Pick it up and practice tying knots with it?
- Attach it to something, such as another scout?

You are waiting for a helicopter to land. Should you...?

Stand on the spot where it is going to land so that you get a good view?

Run towards it as it descends?

Keep well away and wait for the rotors to stop and the pilot to signal it's safe before you approach it?

A light aircraft is being serviced in a hangar. Is it safe to...?

Turn the propeller by hand?

Get into the cockpit and try the controls?

Assume that the aircraft is a dangerous place and keep well clear?

You see a red triangle near the cockpit of a jet aeroplane. What does it mean?

Ejector seat.

Don't climb on the aircraft.

Nothing - it's just a pretty pattern.

Activity 3: How weather conditions impact air activities

- 1) Match each weather condition to the correct statement about flight.
- 2) Discuss with a partner how they would effect air activities.

 Thick Fog	 Warm Sun	 Temperature below freezing at ground level	 Thunder and Lightning	 Very Strong Winds	 Snow
Perfect for gliding	De-ice aircraft before flight	Wait for improved visibility before taking off	Clear runway before aircraft land or take off	Ideal conditions for ballooning	Bumpy conditions for flight

Activity 4: Use the phonetic alphabet below to spell out:

1) Chocks away.

Charlie Hotel Oscar Charlie Kilo Sierra,
Alpha Whiskey Alpha Yankee

2) Begin boarding.

Bravo Echo Golf India November
Bravo Oscar Alpha Romeo Delta India November Golf

3) Time to refuel.

Tango India Mike Echo
Tango Oscar
Romeo Echo Foxtrot Uniform Echo Lima

A B C D E F G H I
ALPHA BRAVO CHARLIE DELTA ECHO FOXTROT GOLF HOTEL INDIA

J K L M N O P Q R
JULIET KILO LIMA MIKE NOVEMBER OSCAR PAPA QUEBEC ROMEO

S T U V W X Y Z
SIERRA TANGO UNIFORM VICTOR WHISKEY XRAY YANKEE ZULU