

AEROGLIDE MkII

TEACHER/TUTOR NOTES & WORKSHEETS



- ◆ The Kits are made by the British Model Flying Association (BMFA)
- ◆ The project will probably take three sessions.
- ◆ Comprehensive BMFA Teachers Notes are supplied with the boxed kits and there are some additional useful notes here together with Worksheets.



WORKSHEET 1

1. Who was the first person to fly a powered aeroplane ?

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2. What are the forces on an aeroplane ?

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3. How do you control a hot air balloon ?

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4. What gives an aeroplane thrust ?

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5. Draw an aerofoil and the streamlines of the air round it. Show the areas of high pressure and low pressure.

6. Give eight reasons why you like to travel by air.

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WORKSHEET 2

1. What is dihedral ? Show the dihedral on a picture of an aeroplane.

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2. What are the three control surfaces of an aeroplane ?

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.....

3. Draw an aeroplane and show the position of the centre of gravity.

4. What happens to the aeroplane if the centre of gravity is:

a) Too far forward

b) Too far back

5. What types of engine are used to power an aeroplane ?

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6. What does 'stall' mean ?

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7. Write a story about a flight in an aeroplane.

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WORKSHEET 3

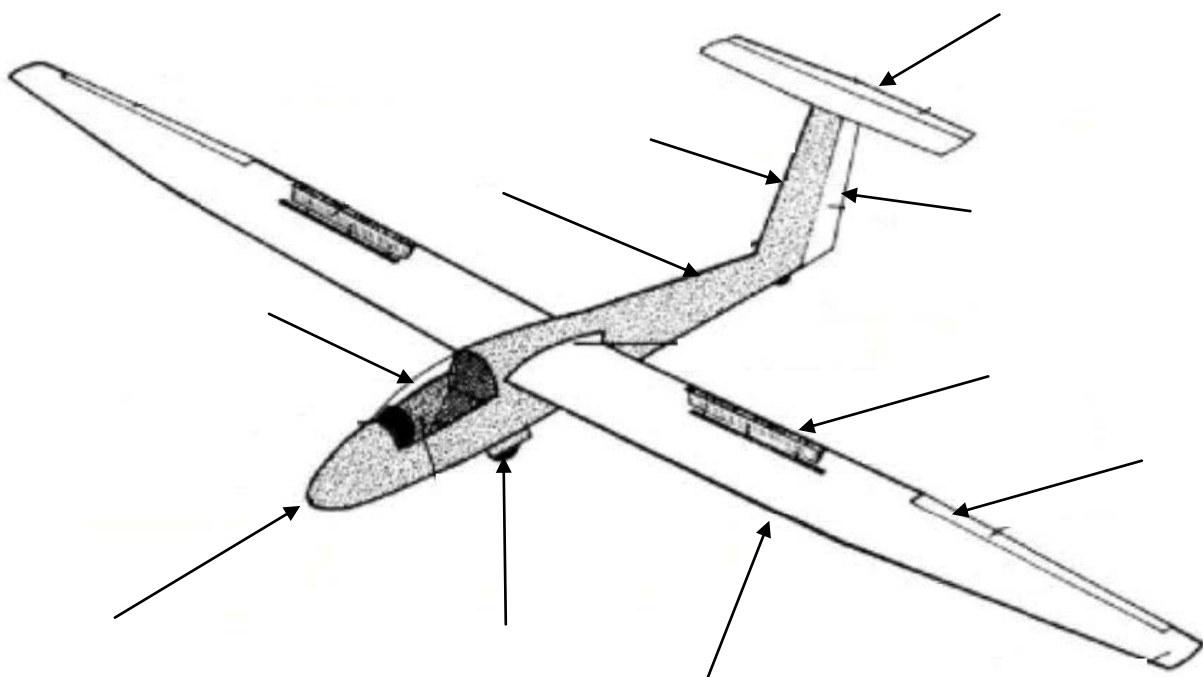
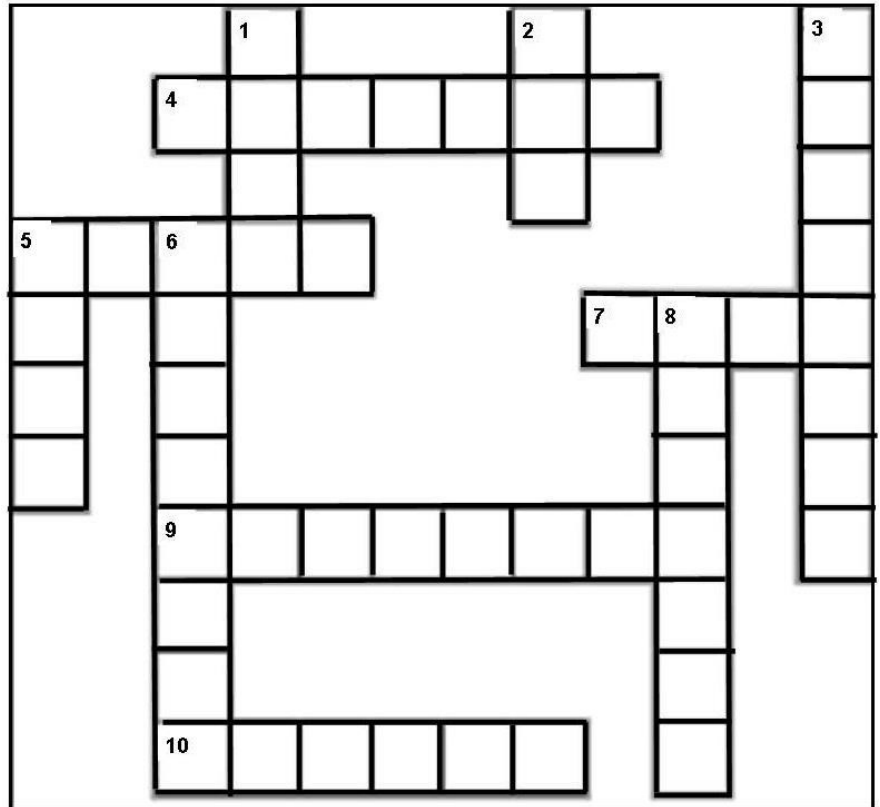
Complete the following crossword using the names of parts of a glider that you learnt today, then label up the picture of the glider showing each of the 10 parts.

Across

- 4. Where the pilot sits
- 5. Useful on a barrow or unicycle
- 7. Dogs and cats have one of these
- 9. Applying one of these is no good for stopping vehicles on a road
- 10. Used to steer boats as well as pointing a plane in the correct direction

Down

- 1. On the end of your face
- 2. Fish have them
- 3. Aeroplane's body
- 5. Birds have two of these
- 6. American term for a lift
- 8. Small flaps on a wing to make a glider bank and turn



AEROGLIDE MKII



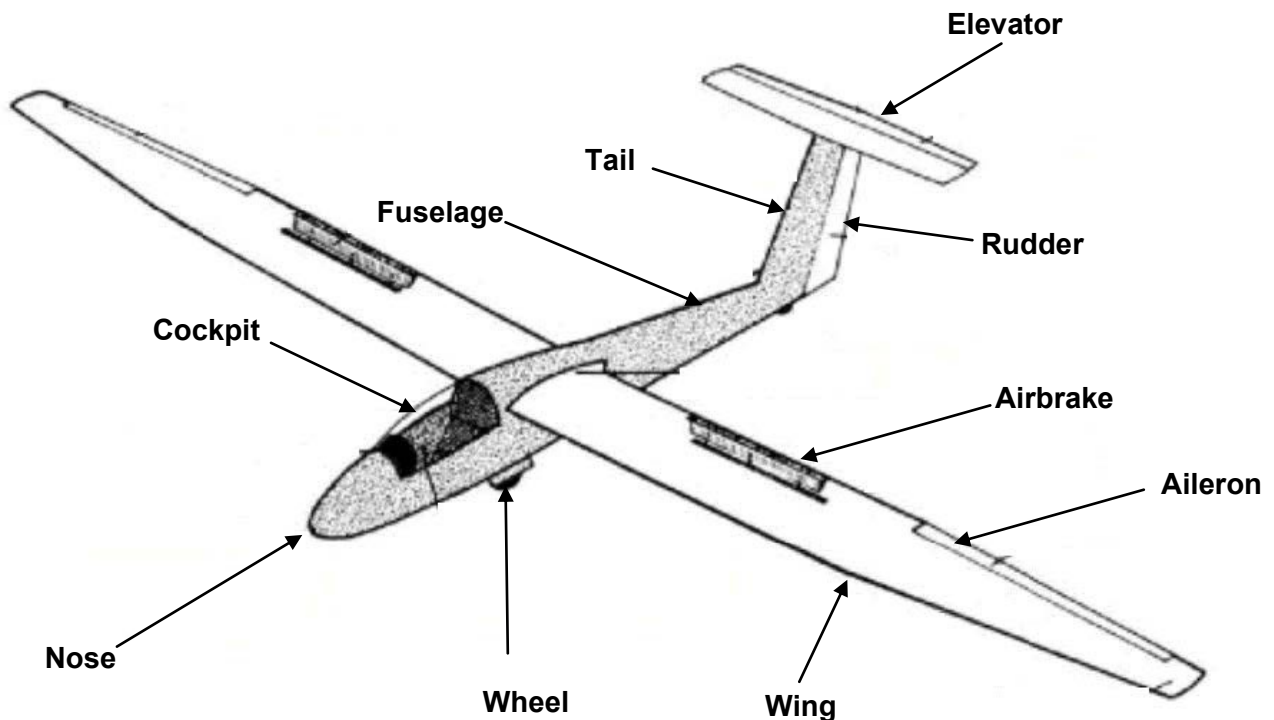
WORKSHEET 3 - ANSWERS:

Across

- 4. Where the pilot sits
- 5. Useful on a barrow or unicycle
- 7. Dogs and cats have one of these
- 9. Applying one of these is no good for stopping vehicles on a road
- 10. Used to steer boats as well as pointing a plane in the correct direction

Down

- 1. On the end of your face
- 2. Fish have them
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- 5. Birds have two of these
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- 8. Small flaps on a wing to make a glider bank and turn





WORKSHEET 4

1. Draw an aerofoil and the streamlines of the air round it. Show the areas of High pressure and Low Pressure.

2. What gives an aeroplane thrust ?

.....

3. What is a dihedral ? Show the dihedral on a picture of an aeroplane

.....

4. What happens to the aeroplane if the centre of gravity is:

a) too far forward

b) too far back

5. Who were the first people to manage to fly a controllable powered aeroplane?

.....

6. What are the three control surfaces of an aeroplane?

.....

.....

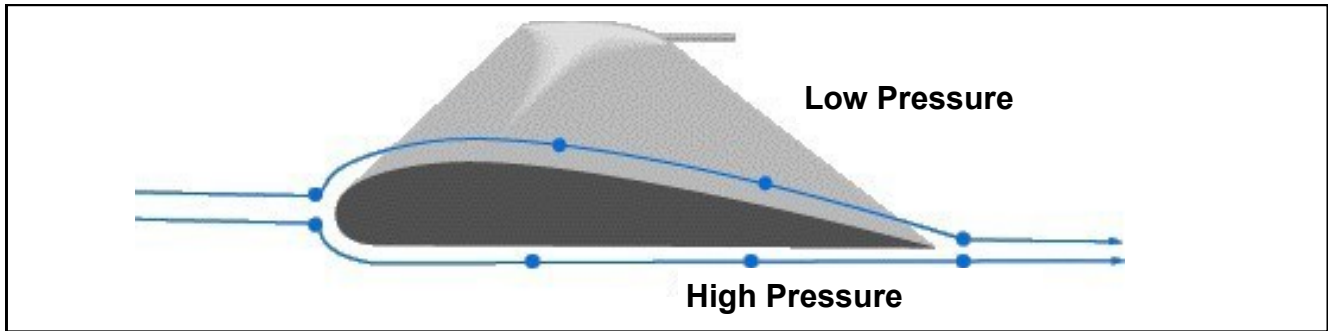
7. Write a short story about a day out where you either saw gliders or hot air balloons. If you can, use a computer to type your story and print it off to hand in next week. Illustrate it with a picture or two if you wish from either the Internet or hand drawn.

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WORKSHEET 4 ANSWERS:

1. Draw an aerofoil and the streamlines of the air round it. Show the areas of High pressure and Low Pressure.

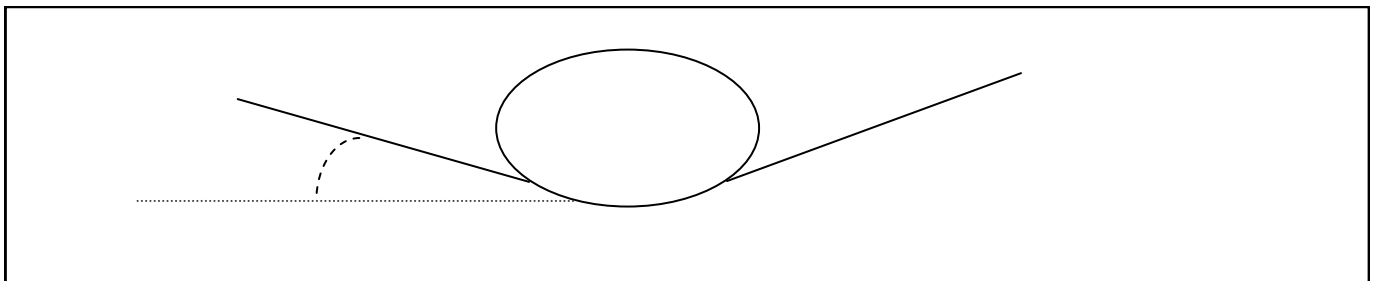


2. What gives an aeroplane thrust ?

.....**A Jet Engine / Propeller / Rocket Engine**.....

3. What is a dihedral ? Show the dihedral on a picture of an aeroplane

Dihedral is the angle at which the wings are attached to the fuselage



4. What happens to the aeroplane if the centre of gravity is:

a) too far forward**The plane will DIVE**.....

b) too far back**The plane will CLIMB and STALL**.....

5. Who were the first people to manage to fly a controllable powered aeroplane?

.....**The Wright Brothers**.....

6. What are the three control surfaces of an aeroplane?

.....**Elevator, Aileron, Rudder**.....