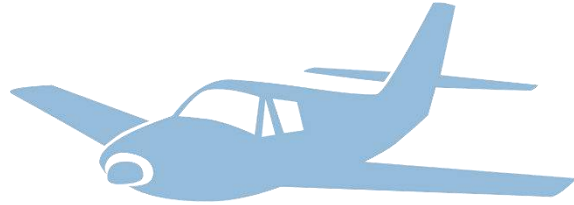


## **Learn to identify parts of an aircraft**

### **Materials**

- › Printer
- › Paper
- › Pen



### **Activity Plan**

- › Open the Aeroplane Activity Book
- › Print the activity book below (printing it double-sided will save on paper!)
- › First find the words in the word search. Try to remember the words for the aircraft parts › On the second puzzle find the first dot and then draw a line through the dots in order. Can you name the aircraft
- › Now see if you can copy the design of the PC-21, make sure you focus on the details
- › Use the clues to identify the parts on the Hawk T2 and try to remember where they are located on each aircraft
- › On this last puzzle find the first dot and then draw a line through the dots in order. Can you name the aircraft

*Don't worry, you don't need to do all of these puzzles in one go, take your time*

### **Learning Objectives**

- › Be able to identify the parts on an aircraft and where they are located ›

Understand the similarities between different aeroplanes



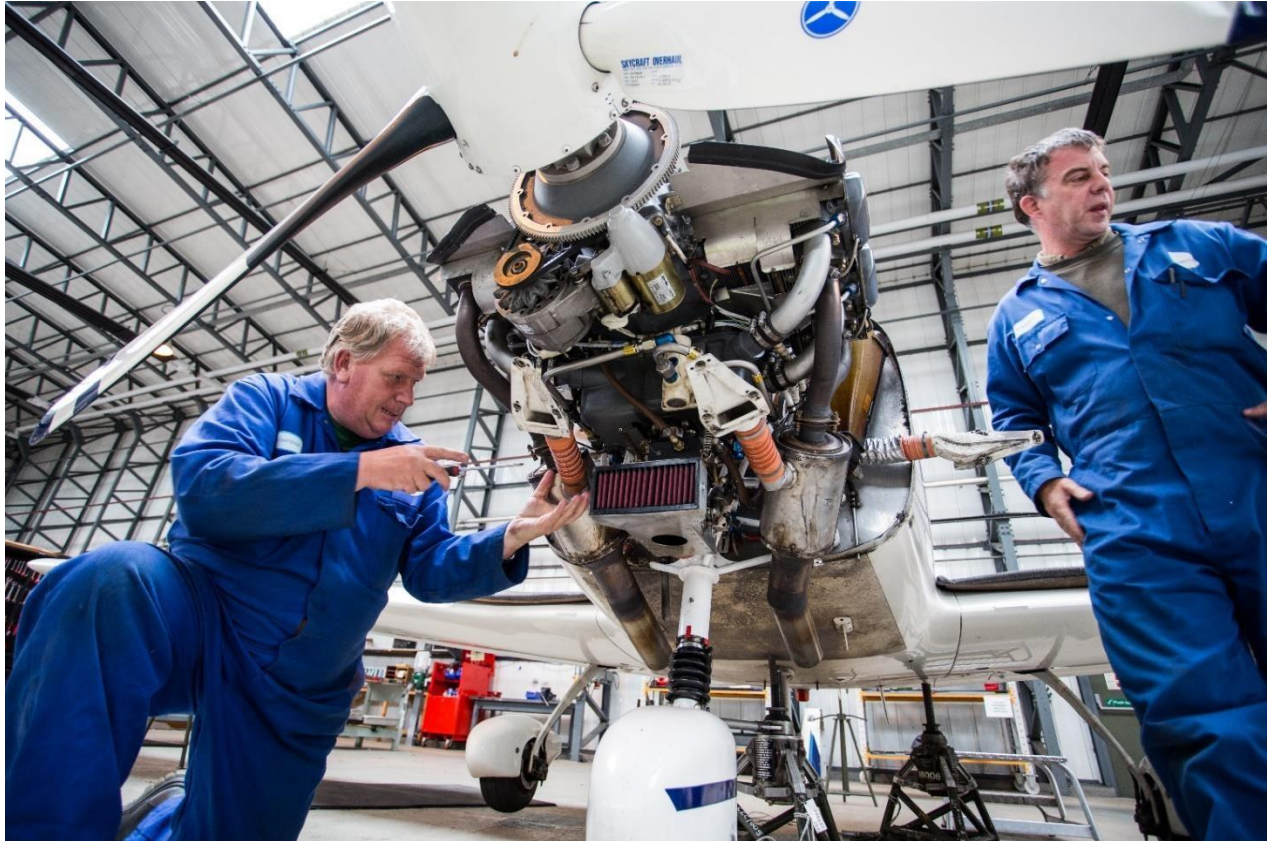
### **Reflection Questions**

- › What are the parts on an aircraft and why are they there?
- › What are the similarities between the different aeroplanes you have drawn?

# The importance of knowing the parts on an aircraft

Babcock takes care of over 25 different types of aircraft. Rotary wing (helicopters) and fixed wing (aeroplanes) are very different aircraft and fly in different ways. Our engineers tend to be experts in one or the other.

Our aircraft engineers must know the names of the parts on the aircraft they are working on to ensure that they are looked after properly. During depth maintenance an aircraft is taken apart piece by piece to ensure that everything is in working order. These parts must then be carefully reassembled in the right order. Knowing what parts go where is vital to ensuring every aircraft can take off safely.



All aeroplanes use the same method of flying, this is why they all have the same basic structure e.g. wings, body in the centre and tail at the back. This means that they all have the same basic elements. The rest of the parts can then be tweaked slightly to make them suitable for different uses.

Our aircraft engineers must know what all of the parts on an aircraft are and what they should look to ensure they fix or replace and parts that get damaged during flight, just like an MOT on a car.

# babcock<sup>TM</sup>



## Aeroplane Activity Book

Can you find all the aircraft related words?

F	J	I	C	W	A	I	R	S	P	E	E	D	D	V	O	Q	E	B	F
A	I	L	E	R	O	N	D	C	P	A	V	I	P	E	Y	B	A	I	Y
S	N	A	I	L	V	S	P	A	L	F	O	J	R	I	A	H	N	X	U
I	X	N	H	A	R	U	G	Q	E	U	E	B	I	Z	L	V	O	L	J
P	D	D	M	B	A	I	M	K	Y	S	R	I	W	R	T	O	G	N	A
L	H	I	Q	X	N	W	A	F	T	E	Z	K	U	C	I	S	T	O	C
V	D	N	T	B	J	R	S	K	D	L	M	C	P	O	T	L	A	X	E

F	S	G	I	H	B	O	J	D	S	A	K	I	U	J	U	Z	I	D	J
M	Q	G	V	R	Y	M	U	X	C	G	L	A	I	S	D	S	L	W	E
T	D	E	I	L	S	R	Z	Y	O	E	S	I	B	U	E	N	P	V	C
Q	C	A	N	Z	F	W	S	W	A	U	B	M	P	M	V	Q	L	Z	T
I	Z	R	X	O	M	C	Z	T	H	R	O	T	T	L	E	R	A	K	I
A	N	B	U	X	J	S	P	S	P	Q	O	Z	Q	N	Y	W	N	J	O
M	W	W	R	H	K	O	I	G	H	N	U	T	G	S	V	G	E	E	N
L	P	I	T	O	T	T	U	B	E	O	F	I	A	B	L	U	C	M	S
V	C	N	Y	W	B	C	F	Z	I	G	N	P	K	V	S	X	R	G	E
M	J	G	F	O	M	S	A	I	R	E	Q	K	S	J	E	T	I	S	A
H	S	K	W	Q	M	J	W	E	B	C	R	C	Q	X	N	L	H	P	T
Y	F	U	E	L	T	A	N	K	S	Y	Y	O	V	M	H	X	E	L	C
X	G	T	N	I	B	D	G	I	Z	R	E	C	A	N	O	P	Y	N	A

Aileron

Wing

Airbrake

Flaps

Airspeed

Altitude

Canopy

Landing Gear

Cockpit

Engine

Elevator

Tailplane

Rudder

Pitot Tube

Fuselage

Throttle

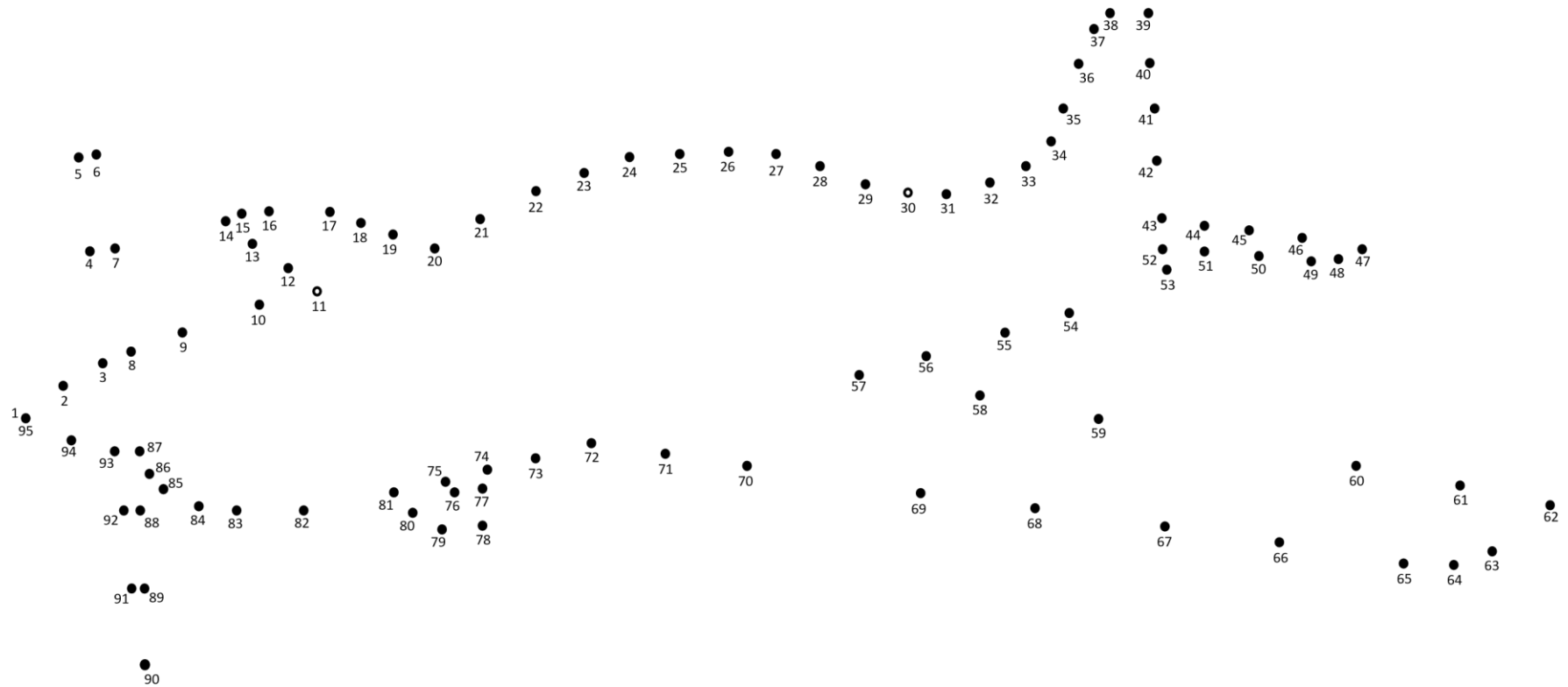
Fin

Ejection Seat

Pilot

Fuel Tank

Can you join the dots and name the aircraft?



This is a.....

Can you draw the other half of our Pilatus PC-21?

The PC-21 is a stage 4 training aircraft, operated by Babcock to train the next generation of fighter pilots for the French Air Force.





Can you name all the parts of the aircraft?

Aileron  
Airbrake  
Canopy  
Ejection Seat

Elevator  
Engine Intake  
Jet Pipe  
Landing Gear

Pitot Probe  
Radar  
Rudder  
Wing

Used to seal the cockpit  
and allows the control  
of the atmosphere  
inside

Used to rescue the pilot  
in case of emergency

Uses pressure to get the  
aircraft speed

Generates lift

Where air is directed  
into the engine

Used for takeoff and  
landing

Controls the roll of  
the aircraft

Used to increase drag  
and slow the aircraft

Radio wave detection  
system

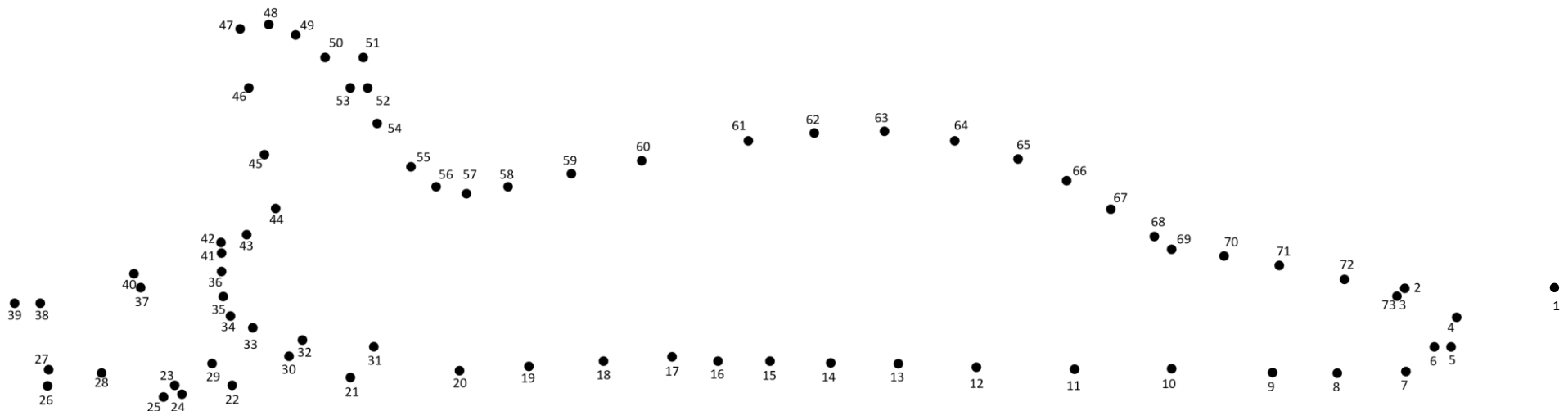
Controls the yaw of  
the aircraft

Engine exhaust

Controls the pitch of  
the aircraft



Can you join the dots and name the aircraft?



This is a.....