

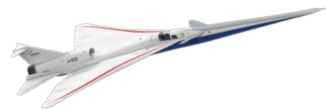


# Fundamentals of Flight Word Search

Can you find the names of NASA's two newest X-planes hidden in the puzzle?

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

- |                                    |                                     |                                    |
|------------------------------------|-------------------------------------|------------------------------------|
| <input type="checkbox"/> Aileron   | <input type="checkbox"/> Jet        | <input type="checkbox"/> Thrust    |
| <input type="checkbox"/> Airport   | <input type="checkbox"/> Landing    | <input type="checkbox"/> Vertiport |
| <input type="checkbox"/> Altitude  | <input type="checkbox"/> Lift       | <input type="checkbox"/> Weather   |
| <input type="checkbox"/> Bernoulli | <input type="checkbox"/> Noise      | <input type="checkbox"/> Weight    |
| <input type="checkbox"/> Contrail  | <input type="checkbox"/> Pilot      | <input type="checkbox"/> Wind      |
| <input type="checkbox"/> Drag      | <input type="checkbox"/> Pitch      | <input type="checkbox"/> Wing      |
| <input type="checkbox"/> Drone     | <input type="checkbox"/> Propeller  | <input type="checkbox"/> Yaw       |
| <input type="checkbox"/> Elevator  | <input type="checkbox"/> Quadcopter |                                    |
| <input type="checkbox"/> Emissions | <input type="checkbox"/> Roll       |                                    |
| <input type="checkbox"/> Gear      | <input type="checkbox"/> Rudder     |                                    |
| <input type="checkbox"/> Gravity   | <input type="checkbox"/> Runway     |                                    |



## DEFINITIONS

**Aileron**—located on the wings; they generate roll

**Airport**—where most airplanes land and take off from

**Altitude**—how high an airplane is flying

**Bernoulli**—a Swiss scientist who studied how air moves

**Contrail**—cloud made when water vapor condenses and freezes around small particles in aircraft exhaust

**Drag**—caused by air resistance; the force that acts opposite to the direction of motion

**Drone**—an unmanned aerial vehicle (UAV) used to perform different functions

**Elevator**—located on the tail section of airplane; controls the pitch of the plane

**Emissions**—gases and particles found in aircraft exhaust; NASA is working to lower them.

**Gravity**—the force exerted on all objects by the Earth and other objects with mass

**Jet**—a type of engine used to power aircraft

**Landing gear**—the wheels and support structures used to support airplanes while on the ground

**Lift**—created mainly by the wings; the force that holds an airplane in the air

**Noise**—sound created by airplanes; NASA is working to lower aircraft noise.

**Pilot**—the person who flies the airplane

**Pitch**—the up and down movement of the nose of an airplane

**Propeller**—pushes or pulls air; used to increase the speed of an airplane

**Quadcopter**—a drone with four propellers

**Roll**—up and down movement of the wings; causes the plane to rotate right or left

**Rudder**—located on tail of the plane; determines whether the airplane's nose moves left or right

**Runway**—rectangular area of land designed for airplanes to land and take off

**Thrust**—the force that moves an aircraft in the direction of its motion

**Vertiport**—often found near cities; where aircraft land and take off vertically (up and down)

**Weather**—the condition of the atmosphere in a specific time and place

**Weight**—the downward force exerted on a plane by the Earth's gravity

**Wind**—the movement of the air; important that pilots account for it while flying

**Wing**—the part of the plane that creates most of the lift when air passes over it

**Yaw**—the turning of a plane created by the rudder

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