

## Grade 6 Science Test – AIR AND FLIGHT

4. The side-to-side movement of the nose of a plane is called . .

5. is the up-and-down movement of the nose of a plane.

something forward.

Gra	de 6 So	cience Test – AIR AND FLIGHT Name:
<u>PA</u>	RT A:	TRUE or FALSE. Place a T or F in the space provided. (10 marks)
1.		It is easier for birds to overcome gravity due to the fact their bones are hollow.
2.		The rudder on a plane controls pitch.
3.		Drag is the most important force when an airplane is taking off.
4.		Gliders look for thermals (rising columns of warm air).
5.		Ailerons help a pilot control the roll of an aircraft to the left or right.
6.		A balanced force is needed for an aircraft to take off.
7.		A force is the ability to rise or float in a fluid.
8.		Lighter-than-air aircraft depend on wind for some thrust.
9.		Buoyancy can occur in water and in the air.
10.		Oxygen is not a fluid because it is a gas.
		<b>FILL IN THE BLANK.</b> Using your knowledge of vocabulary from this unit, in the blank with the most appropriate word(s). (10 marks)
1.	The for	rce which enables something to rise or float in a fluid is called
2.	The fla	up on the wings of an airplane are called
3.		is the force exerted by a rocket or jet engine that moves

6.		states that the faster a fluid
	or gas tra	vels, the lower its pressure.
7.	The	is the body of an aircraft that holds passengers or cargo.
8.	То	is to drive or push on object forward.
<u>PAl</u> sent	RT D: Si	<b>HORT ANSWER.</b> Answer each question using a couple of well worded each $x$ 10 = 20 marks)
	1. Expla	ain why a hot air balloon rises. How does it land?
	2. W	hat is an airfoil? Why is it so important for flight?
	3. Id	entify and describe 3 properties of air.
	4. D	efine fluid and give 2 examples.

5.	List the four forces and tell how they act on an airplane.
6.	What three parts of a plane control its movements? What does each control?
7.	Give 2 examples of <u>living things</u> and how they have adapted to propel themselves
	through air or water.