Science

Air and Aerodynamics

Name: _____

This is an example of how Bernoulli's principle can act on a plane wing
In the first diagram, two air molecules are about to encounter a plane wing.

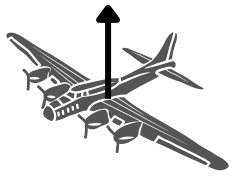
1. DRAW the next steps. Be sure to include the PRESSURE being exerted on the wings.
2. WRITE what is happening in each step.
3. Use what you've drawn and written to DESCRIBE this process to another student!

DRAWING	DESCRIPTION
FIRST… AIR MOLECULES PLANE WING	

Fill in column A and B with the corresponding description or direction of motion.

The first one is an example.

Explain to a friend your reasoning

EX: Lift is greater than gravity	
Thrust is greater than drag	
Gravity is greater than lift	
	

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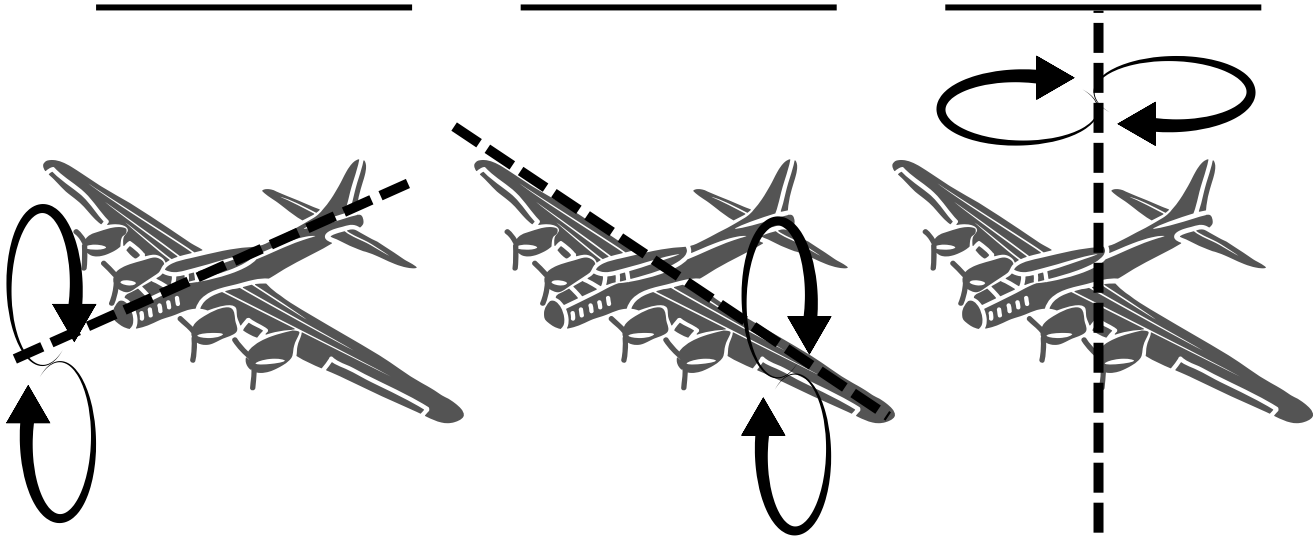
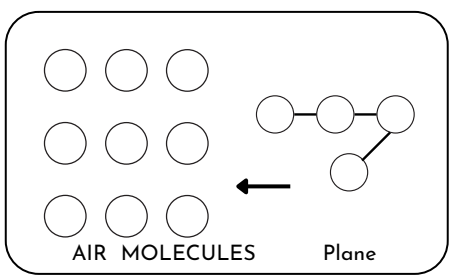
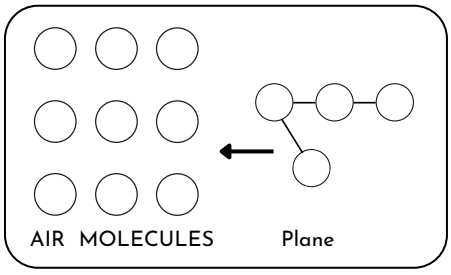
Science Air and Aerodynamics

Label which control surface moves on which axis. Then circle/colour in that control surface on the plane.





Draw what will happen to each plane as they move through the air molecules?



Which design reduces drag through streamline?

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