

The study of air in motion is called aerodynamics.

Air is very pushy, it doesn't pull but it does push. Air is pushing on your body right now. We're so used to air pushing on us that we don't even notice it. **The constant push of air is called air pressure.**

Lesson 4: Review of Aerodynamics Activity

In our activities, we were looking at air pressure and air speed.

Let's go over the stations and the answers.

Lesson 4: Review of Aerodynamics Activity

So far we know that:

1. There are four forces that affect flight.

-thrust

What part of the bow and arrow creates drag?

-lift

-drag

What part of an airplane plane creates thrust and drag?

-gravity

2. Birds' wings are different to increase/decrease these forces depending on how they want to fly.

Long and narrow: reduces drag and creates lift

-good to glide for long distances

Small, rounded: can take off quickly but not glide far

3. Air pressure differences affect lift.

High air pressure below something pushes it up.

So high air pressure below a wing will push it up.

Now we're going to look at two new facts: (First through a video and then next class, through an activity)

4. The special fluid, air, moving over the curved surface of a wing will draw the wing upward.

5. The amount of lift due to air movement depends on the angle of the wing on takeoff.

Magic School Bus Episodes:

Grade 6-We will watch on the board.

Grade 5:

1. Go to class website:

www.classfromhome.weebly.com

2. Click on Science 5, scroll down to Unit 3 and click on Magic School Bus-Friction.

Lesson 4: Review of Aerodynamics Activity

Activity: UP Lifting Theories.

1. Read the handout.
2. Follow the procedure for "Work On It" activity.
3. Think about the questions on the page of the activity (page 196, there are three questions.)
4. Answer the questions on the paper attached.

Lesson 4: Review of Aerodynamics Activity