

Study Guide - Air and Aerodynamics & Flight

This is a list of some things you'll want to be able to do for the test. If you can do all these things from memory, you'll probably do well on the test. This is not a complete list of everything that will be on the exam. There might be questions from your notes, the textbook, class discussions, and assignments. There might be questions that aren't related to items on this list.

Students must be able to:

Air and Aerodynamics

- ☐ Recall all their definitions
- ☐ Provide evidence that air takes up space
- ☐ Provide evidence that air exerts pressure
- ☐ Provide evidence that air has mass
- ☐ Explain how air is used for everyday applications like inflating sports balls, compressed air tools, tires, etc.
- ☐ Provide evidence that air is a fluid that can be compressed.
- ☐ Identify uses for compressed air
- ☐ Memorize Bernoulli's Principle
- ☐ Predict areas of high or low air pressure based on speed of air and Bernoulli's Principle
- ☐ Label the 4 forces of flight
- ☐ Explain how the 4 forces of flight are affected by aircraft design
- ☐ Streamline the design of an aircraft
- ☐ Increase drag of a parachute or aircraft
- ☐ Identify adaptations that allow birds and insects to fly
- ☐ Explain how air moves past a wing to create lift
- ☐ Memorize approximately how much of each type of gas makes up the atmosphere
- ☐ State that living animals breathe in oxygen and breathe out carbon dioxide
- ☐ State that plants use up carbon dioxide and release oxygen from the atmosphere
- ☐ Explain the difference between the chemical reactions of burning and rusting
- ☐ Name the two oxidation reactions we studied this unit
- ☐ Name the gas from the atmosphere that reacts during an oxidation reaction
- ☐ Give examples of things rusting, burning, or oxidizing

Flight

- ☐ Recall all their definitions
- ☐ Design a parachute and troubleshoot problems areas or ways to improve it
- ☐ Describe the design of a hot air balloon and name the parts
- ☐ Explain how a hot air balloon rises, falls, and moves through the air
- ☐ Build a paper airplane glider
- ☐ Modify a paper airplane to produce a certain flight path (pitch up or down, roll left or right, etc.)
- ☐ Memorize the term a wing, fuselage, vertical and horizontal stabilizers, elevators, ailerons, and rudder
- ☐ State the difference between pitch, roll, and yaw
- ☐ Explain how the flaps on a plane need to be moved in order to control the pitch, yaw, and roll
- ☐ Describe differences in design between aircrafts and spacecrafts
- ☐ Give reasons why planes and space rockets are designed differently

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