

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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Table of Contents Grade 6 Air And Aerodynamics Study Guide

1. Understanding the eBook Grade 6 Air And Aerodynamics Study Guide
 - The Rise of Digital Reading Grade 6 Air And Aerodynamics Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 6 Air And Aerodynamics Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 6 Air And Aerodynamics Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 6 Air And Aerodynamics Study Guide
 - Personalized Recommendations
 - Grade 6 Air And Aerodynamics Study Guide User Reviews and Ratings
 - Grade 6 Air And Aerodynamics Study Guide and Bestseller Lists
5. Accessing Grade 6 Air And Aerodynamics Study Guide Free and Paid eBooks

- Grade 6 Air And Aerodynamics Study Guide Public Domain eBooks
 - Grade 6 Air And Aerodynamics Study Guide eBook Subscription Services
 - Grade 6 Air And Aerodynamics Study Guide Budget-Friendly Options
6. Navigating Grade 6 Air And Aerodynamics Study Guide eBook Formats
- ePub, PDF, MOBI, and More
 - Grade 6 Air And Aerodynamics Study Guide Compatibility with Devices
 - Grade 6 Air And Aerodynamics Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Grade 6 Air And Aerodynamics Study Guide
 - Highlighting and Note-Taking Grade 6 Air And Aerodynamics Study Guide
 - Interactive Elements Grade 6 Air And Aerodynamics Study Guide
8. Staying Engaged with Grade 6 Air And Aerodynamics Study Guide
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 6 Air And Aerodynamics Study Guide
9. Balancing eBooks and Physical Books Grade 6 Air And Aerodynamics Study Guide
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 6 Air And Aerodynamics Study Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 6 Air And Aerodynamics Study Guide
- Setting Reading Goals Grade 6 Air And Aerodynamics Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 6 Air And Aerodynamics Study Guide
- Fact-Checking eBook Content of Grade 6 Air And Aerodynamics Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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