

Aerospace Engineering Basics

Aerospace Engineering · Answer Key · 12 Questions

1. Which of these four forces of flight pushes an airplane upward against the force of gravity?

- A) Drag
- B) Thrust
- C) Lift**
- D) Weight

2. What is the main layer of Earth's atmosphere where most commercial airplanes fly?

- A) Troposphere**
- B) Mesosphere
- C) Thermosphere
- D) Exosphere

3. Which fuel do most modern commercial jet engines typically burn?

- A) Coal
- B) Kerosene-based jet fuel**
- C) Solar power
- D) Steam

4. What is the name of the part at the back of an airplane that helps it steer left and right?

- A) Rudder**
- B) Aileron
- C) Fuselage
- D) Landing gear

5. Which planet in our solar system do space agencies most frequently send rovers to explore?

- A) Venus
- B) Mars**
- C) Jupiter
- D) Saturn

6. What do engineers call the main body of an aircraft where passengers and cargo are kept?

- A) Cockpit
- B) Wing
- C) Fuselage**
- D) Tail

7. Which force acts against the motion of an aircraft, trying to slow it down as it moves through the air?

- A) Thrust
- B) Drag**
- C) Gravity
- D) Lift

8. Who were the brothers credited with the first powered, controlled, and sustained flight of a heavier-than-air aircraft?

- A) Wright brothers**
- B) Montgolfier brothers
- C) Wright-Patterson
- D) Orbital brothers

9. What device is used in a rocket engine to push it forward by expelling hot gas at high speed?

- A) Propeller
- B) Nozzle**
- C) Sail
- D) Rotor

10. Which gas makes up the majority of Earth's atmosphere, which airplanes need for their engines?

- A) Oxygen
- B) Carbon dioxide
- C) Nitrogen**
- D) Helium

11. What is the term for an aircraft that does not have an engine, such as a glider?

- A) Rocket
- B) Helicopter
- C) Sailplane**
- D) Spacecraft

12. What are the movable flaps on the rear edge of an airplane's wings that help it roll or bank?

- A) Ailerons**
- B) Flaps
- C) Propellers
- D) Fuselage