

Aerospace Engineering for Young Explorers

Aerospace Engineering · Practice Test · 12 Questions

1. What is the name of the force that lifts an airplane up into the sky?

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

2. Rockets shoot hot gas out of their bottom to push into space. What is this pushing force called?

- A) Thrust
- B) Friction
- C) Magnetism
- D) Sound

3. Why must astronauts wear special helmets when walking outside in space?

- A) To keep their hair tidy
- B) To supply air to breathe
- C) To play radio games
- D) To block the rain

4. What type of robotic vehicle do aerospace engineers send to drive around and explore Mars?

- A) A submarine
- B) A rover
- C) A sailboat
- D) A train

5. A satellite circles around the Earth over and over again. What is this path called?

- A) An orbit
- B) A tunnel
- C) A runway
- D) A bridge

6. Which main parts on the sides of an airplane help it stay floating in the air?

- A) Wheels
- B) Wings
- C) Windows
- D) Anchors

7. What special protective part on a spacecraft stops it from overheating when returning to Earth?

- A) A solar panel
- B) A heat shield
- C) A rubber tyre
- D) A glass window

8. What loud sound is created when an airplane flies faster than the speed of sound?

- A) A sonic boom
- B) A thunderstorm
- C) A whistle
- D) An engine roar

9. Instead of long fixed wings, what spinning blades on top of a helicopter lift it into the air?

- A) Jet engines
- B) Rotor blades
- C) Steering wheels
- D) Pedals

10. What opens up to safely slow down a returning space capsule as it drops back through the air?

- A) A giant fan
- B) A parachute
- C) An anchor
- D) A water spray

11. How do most satellites get electricity to power their equipment while in space?

- A) By plugging into Earth
- B) From sunlight using solar panels
- C) From burning wood
- D) From wind turbines

12. What invisible pull from Earth must a rocket overcome to blast off into outer space?

- A) Magnetism
- B) Gravity
- C) Wind
- D) Electricity