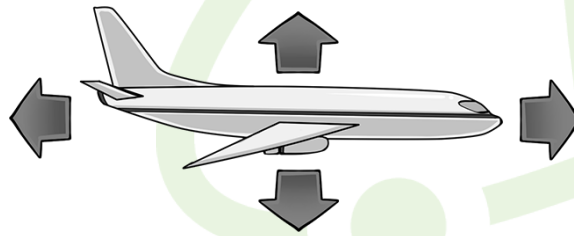


Stability and Motion: Science of Flight

Check for Understanding

Use the following picture to answer questions 1 and 2.



1. Circle the phrase that makes the statement true.

When an airplane lands on the ground, the thrust is _____ the drag.

greater than

less than

Explain why the statement above is true.

2. Circle the phrase that makes the statement true.

When an airplane takes flight, the lift is _____ the weight.

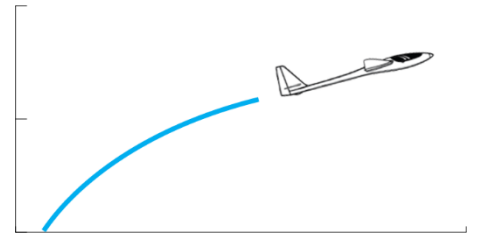
greater than

less than

Explain why the statement above is true.

3. How do you know when forces are balanced or unbalanced? Provide an example of a balanced force and an unbalanced force.

4. The picture shows the path of a glider through the air. Explain whether the lift and weight forces are **balanced** or **unbalanced**. Use the picture to provide evidence to support your thinking.



5. Explain whether the lift and weight forces are **balanced** or **unbalanced** with the glider now. Use the picture to provide evidence to support your thinking.

