

Forces of Gravity and Air Resistance

Final Assignment Instructions

In this lesson, you have learned that the force of gravity causes all objects on Earth to fall toward Earth's center. You have also learned that a force from the opposite direction, such as air resistance, can counteract gravity. You will now write an essay that shares what you have learned and what you think about it. You will need a printout of your notes.

- Choose one of the topics below and **write** an essay.
- **Organize** your response so that it includes at least three supporting details that you have learned from the reading passage, videos, and other materials in this lesson.
- **Use** at least three vocabulary words (or a form of the words) as part of your supporting details. For example, for the word *jump*, you could use *jumps*, *jumped*, or *jumping*.

Essay Topics

1. Describe how the forces of gravity and air resistance affect how fast an object falls. Use specific examples to support your ideas.
2. Describe the forces that act on a skydiver after he or she has jumped out of a plane. Explain how different body positions would affect how the skydiver falls, and why a parachute is important.

Vocabulary Words

acceleration
balanced
counteract
force
gravity
resistance