

Name: _____

PAGE 8 Air Force

DIRECTIONS: Use complete sentences to explain how the following forces affect ski jumpers.

1. Gravity:
2. Air resistance:
3. Friction:
4. Lift:
5. In the space to the right, make a stick-figure drawing showing the “fly position” that ski jumpers adopt to gain lift.

PAGE 12 Splash Down!

DIRECTIONS: Fill in the blanks to complete the following sentences.

1. Under a condition called the _____, the brain immediately senses water contacting the body and reroutes oxygen-rich _____ to vital organs.
2. Bradycardia means a slowing of the _____, leading to a reduction in _____ to other tissues.
3. Barotraumas are pressure injuries in areas of the body that contain pockets of _____, such as the _____, _____, and _____.
4. To raise the _____ in the oral cavity, freedivers pinch their noses and behave as if they're about to _____ through it.
5. _____, or slow and deep inhaling and exhaling at the water's surface, helps freedivers boost the _____ levels in the blood and removes as much _____ as possible.

PAGE 20 Scorpions: Friend or Foe?

DIRECTIONS: Rewrite the false statements below to make them true.

1. Scorpions are six-legged insects.
2. Like most vertebrates, scorpions lay masses of eggs and do not care for their young.
3. Venom is made of saliva.
4. Scorpions inject venom with fangs. Their venom is always deadly to people.
5. Scientists have found that one type of scorpion venom can be used to treat stomach aches because it kills all the bacteria in the gut.

Name: _____

PAGE **16** Way to Go**DIRECTIONS:** Complete the following as you read the story on pages 16 to 18.

1. Look at the images on pages 16 to 18. Then read the article's headline and subheadlines. Based on this information, what do you think this article is about? Why?
2. Below are three vocabulary words. Read the story to find the definitions of these words.
Tectonic plates:

Orogeny:

Global warming:
3. In the section titled "Moving Mountains," the author describes what Earth looked like 65 million years ago. List three differences in the way Earth looked then compared with today.
4. The article states: The mountain-building process is far from over. Predict how the Himalayan region may change in the next 20 million years.
5. Use the information in the article to *defend* or *dispute* this statement: In the future, it will be more difficult for climbers to summit Mount Everest. (**Hint:** Defend means to explain why a statement is correct. Dispute means to explain why a statement is incorrect.)
6. Study the diagram on p. 18. In your own words, summarize the process that led to the formation of the Himalayan mountain range.