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Vocabulary Worksheets Understanding and Using English Grammar, 4th Edition Chapter 18: Reduction of Adverb Clauses to Modifying Adverbial Phrases

Worksheet 1. Reading: An Amazing Swimsuit

Read about a new kind of swimsuit. Then review the glossary and complete the exercises that follow it.

- 1 A new type of swimsuit developed by the U.S. agency NASA (The National Aeronautics and
- 2 Space Administration) has helped smash world records in swimming. Before the Beijing
- 3 Olympics in 2008, swimmers set 48 world records while wearing this skin-tight body suit. At
- 4 the Beijing Olympics, 23 of the 25 swimmers from around the world were wearing this suit
- 5 when they broke an existing Olympic world record.
- 6 The suit is called the Speedo LZR Racer. At the Beijing Olympics, 94 percent of all gold
- 7 medalists and 89 percent of all medalists wore the suit while competing. Among the Olympic
- 8 medalists wearing it were Michael Phelps of the United States, Kosuke Kitajima of Japan,
- 9 and Kirsty Coventry of Zimbabwe.
- 10 Looking for expertise in aerodynamics, Speedo had turned to NASA a few years before the
- Beijing Olympics. Having extensively researched the science of speed through air in the
- space program, NASA had this expertise. Aerospace engineers at NASA tested several
- fabrics in wind tunnels and found a material that reduces drag as much as possible. Drag is
- the force in nature that slows down a body moving through water or air. Planes, racing cars,
- and racing boats have aerodynamic designs to reduce drag, thus helping them move faster.
- 16 Just as reducing drag helps planes fly more efficiently, reducing drag helps swimmers go
- faster too. Research shows that viscous drag—skin friction—causes a lot of restraining force
- against a swimmer. The less drag against a swimmer, the faster he or she can go.
- 19 Swimming in a suit that covers the legs, a person receives less friction on the skin from the
- 20 water.
- 21 After testing different materials and developing the design, NASA completed its task, and
- 22 Speedo manufactured the suit. Speedo representatives say it is the most technologically
- advanced swimsuit ever developed and claim that it enables swimmers to be 2% faster.
- Other companies will manufacture a similar suit, and, wanting to have every possible
- advantage, competitive swimmers will probably be wearing this new type of swimsuit, made
- 26 by one manufacturer or another, in future competitions.



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to Modifying Adverbial Phrases

Worksheet 1 (page 2)

Glossary

- Line 13 wind tunnels — a large enclosed passage where engineers test aircraft and other objects by forcing air past them
- viscous drag the force of water that pushes against a Line 17 body that is moving forward, such as the body of a



Speedo's LZR Racer Olympic swimsuit (Voice of America photo)

Comprehension practice

Decide whether each statement is true or false, according to the reading. Circle T if the sentence is true and F if the sentence is false.

1.	The reading is about a new kind of swimsuit.	T / F
2.	The swimsuit was invented by the swimmer Michael Phelps.	T / F
3.	Every swimmer who won a gold medal at the Beijing Olympics was wearing this kind of suit.	T / F
4.	NASA helped develop the suit.	T / F
5.	Engineers tested many fabrics in wind tunnels.	T / F
6.	Drag is a force in nature that works against something moving through water or air.	T / F
7.	The friction against your skin causes you to slow down when you are swimming.	T / F
8.	When wearing the suit, swimmers can go 20% faster.	T / F
9.	This type of suit will be manufactured by more than one company.	T / F
10.	Swimmers will not be able to wear these suits in future Olympics.	T / F