

Name:

Date:

Class:

## Engineering & Design Quiz **Answers**

### 1. What is engineering?

**Engineering is using science and mathematics to solve problems that improve the world around us.**

**(for the pre-quiz) For instance, engineers design skateboards, traffic lights, power plants, airplanes, computers, phones, roller coasters, spacecraft, games, materials, skyscrapers, chemicals, medicines, replacement body parts, etc.**

**(for the post-quiz) Additional examples: Engineers design toasters, robots, light bulbs, air conditioning, surgical tools, software, snowboards, shoes, ships, radar, oil rigs, and nanotechnology and pollution solutions.**

### 2. List some examples of design challenges.

**Possible answers are unlimited!**

**(for the pre-quiz) Examples: designing more energy-efficient cars, bridges to get across rivers, alarm clocks to wake us up, and even software, trips and events!**

**(for the post-quiz) Examples: designing water treatment plants, highway bridges and tunnels, factory assembly lines, and even vacations and picnics!**