

Engineering & Design Quiz

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!