

# Friction Engineering Challenge Review

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## Understanding Friction and Its Applications

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Answer the following questions based on the lesson about friction.

1. What is friction?

- A. A force that helps us walk
- B. A type of energy
- C. A kind of material

2. Friction is always harmful and should be minimized at all times.

True       False

3. Describe one everyday situation where friction helps us. Why is it important in that situation?

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4. Engineers design solutions to \_\_\_\_ or \_\_\_\_ friction based on specific needs.

5. What does Proverbs 21:5 teach us about planning?

- A. Haste leads to success
- B. Diligent plans lead to profit
- C. Planning is not important

6. How did your design solve a friction problem during the engineering challenge?

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7. Too much friction can slow down machines.

True       False

8. Friction helps us walk without \_\_\_\_ and can slow down \_\_\_\_.

9. In which of these situations would you want to maximize friction?

- A. A car on a wet road
- B. A skateboard ramp
- C. A person walking on ice

10. What surprised you about friction today?

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Answer Key

1. A force that helps us walk 2. False 3. Friction helps us walk without slipping. It is important because it allows us to move safely without falling. 4. maximize, minimize 5. Diligent plans lead to profit 6. My design reduced friction by using smooth surfaces, which helped the object move faster. 7. True 8. slipping, machines 9. A skateboard ramp 10. I was surprised to learn that friction can be both helpful and harmful depending on the situation.