

Motion Challenge Review

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Understanding Track Design and Marble Motion

Name: _____

Date: _____

Answer the following questions based on what you learned about motion and track design.

1. What is one factor that affects how fast a marble moves on a track?

- A. The color of the track
- B. The angle of the track
- C. The size of the marble

2. Smooth surfaces help reduce ____.

3. Why is it important to design a good track for the marble?

4. Match the terms with their definitions.

Velocity

Speed and direction of motion

Friction

Resistance that slows down movement

5. What happens when the track angle is steeper?

- A. The marble goes slower
- B. The marble goes faster
- C. The marble stops

6. What did you learn about motion today?

7. Changing the track design can affect the marble's distance and ____.

8. A rough surface increases friction, making the marble move slower.

- True False

9. What does Proverbs 4:26 teach us about our paths?

- A. To make them level
- B. To make them colorful
- C. To make them long

10. How can we make a marble travel the farthest on a track?

Answer Key

1. The angle of the track 2. friction 3. A good track helps the marble move smoothly and quickly. 4. Speed and direction of motion 5. The marble goes faster 6. I learned how track design affects marble movement. 7. velocity 8. True 9. To make them level 10. We can use smooth surfaces and a good angle for the track.