

Name: _____

Date: _____

Safe Roads

4th Grade- Design Task Assessment

Directions: For each of the questions below, choose the BEST answer.

- 1) A _____ system takes people or objects to other places.
 - A. construction
 - B. transportation
 - C. motivation
 - D. plantation

- 2) What is work?
 - A. the distance an object moves
 - B. how heavy an object is
 - C. the amount of matter in an object
 - D. when a force moves an object

- 3) How fast or slow an object moves across a set distance is called _____.
 - A. force
 - B. work
 - C. speed
 - D. weight

- 4) A push or pull on an object is called _____.
 - A. force
 - B. work
 - C. effort
 - D. power

5) Friction makes an object _____ to move.

- A. easier
- B. harder
- C. simpler
- D. faster

6) The force that keeps us on earth is called _____.

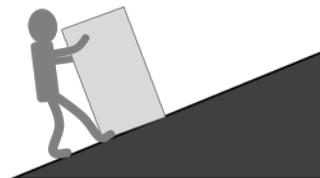
- A. lift
- B. gravity
- C. thrust
- D. drag

7) Which surface has the **most** friction?

- A. frozen pond
- B. gym floor
- C. grass field
- D. marble floor

8) What makes it hard for a person to push a box up a rough wooden ramp?

- A. lift
- B. thrust
- C. effort
- D. friction



9) Forces cause changes in _____.

- A. size or color
- B. volume or mass
- C. speed or direction
- D. shape or density

10) Jack has to ride his bicycle down a large hill to get to school. Why does Jack **not** have to peddle as he rides down the hill?

- A. lift
- B. drag
- C. friction
- D. gravity

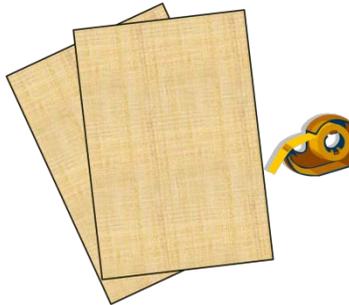


11) On which surface would a rubber ball roll the **farthest**?

- A. grass
- B. ice
- C. gravel
- D. cement

12) John wants to design a race track for his toy cars. John may only use two sheets of cardboard and a roll of tape. These limited materials are listed under the _____.

- A. constraints
- B. goal
- C. criteria
- D. problem



13) Katie owns Highways Construction Company. Katie has been hired by the Indiana Department of Transportation to design a ramp that will allow drivers to get onto the new interstate. Who is the end user?

- A. Katie
- B. Highways Construction Company
- C. Indiana Department of Transportation
- D. the drivers