

## Fizix of Phun - Vocabulary (Pre-Event Assignment)

*Define each of the following...*

acceleration \_\_\_\_\_

centrifugal force \_\_\_\_\_

centripetal force \_\_\_\_\_

circumference \_\_\_\_\_

diameter \_\_\_\_\_

force \_\_\_\_\_

frame of reference \_\_\_\_\_

friction \_\_\_\_\_

G force \_\_\_\_\_

gravity \_\_\_\_\_

horsepower \_\_\_\_\_

inertia \_\_\_\_\_

joule \_\_\_\_\_

kilogram \_\_\_\_\_

kinetic energy \_\_\_\_\_

mass \_\_\_\_\_

meter \_\_\_\_\_

momentum \_\_\_\_\_

newton \_\_\_\_\_

parabola \_\_\_\_\_

potential energy \_\_\_\_\_

pound \_\_\_\_\_

power \_\_\_\_\_

projectile \_\_\_\_\_

protractor \_\_\_\_\_

radius \_\_\_\_\_

watt \_\_\_\_\_

weight \_\_\_\_\_

weightlessness \_\_\_\_\_

work \_\_\_\_\_

Complete each of the following "elevation" problems.

A person with a 0.95 m long pace stands 25 paces from a wall and measures...

- a downward angle of  $7^\circ$  to the bottom of the wall
- an upward angle of  $22^\circ$  to the top of the wall.

How tall is the wall?

A person with a 0.85 m long pace stands 40 paces from a wall and measures...

- an upward angle of  $37^\circ$  to the top of the wall
- an upward angle of  $12^\circ$  to the bottom of the wall.

How tall is the wall?