Extension Worksheet 1

Name: _____ Class: _____ Date: _____

1. Explain each of the following concepts.

a. Trajectory: _____

_____

b. Displacement: _____

_____

c. Distance traveled: _____

_____

d. Speed: _____

_____

e. Velocity: _____

_____

2. Daniela has two hours to travel 120 kilometers from her home to her grandmother's home. At what speed should she travel?

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3. Will these bodies deform when a force is applied to them? Explain, noting what kind of body each one is.

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Extension Worksheet 2

Name: _____ Class: _____ Date: _____

1. Design an experiment to determine the effects of force on a toy car.

Research Question

_____

_____

Hypothesis

_____

_____

Predictions

_____

_____

Experimental Procedure

_____

_____

_____

_____

_____

_____

_____

_____

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2. What happens to the speed of a body in the following situations?

a. Applying a force to a body that is still.

_____

_____

b. Applying a force in the same direction as a body's movement.

_____

_____

c. Applying a force in the opposite direction to a body's movement.

_____

_____

3. What are the effects of the following forces on bodies? Describe them.

- Frictional force: _____

_____

_____

- Gravitational force: _____

_____

_____

- Magnetic force: _____

_____

_____

- Electric force: _____

_____

_____

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