Name _____ Date _____ Class _____

Review and Reinforce

Friction and Gravity Read pp. 36- 43

Understanding Main Ideas

Answer the following questions in the spaces provided.

1. What are the two factors that affect the frictional force between two surfaces? _____

_____

2. What two factors affect the gravitational force between two objects? _____

3. How does mass differ from weight? _____.

_____

_____

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

4. ____ friction
5. ____ rolling friction
6. ____ sliding friction
7. ____ fluid friction
8. ____ static friction
9. ____ weight
10. ____ gravity

a. the force that pulls objects toward each other

b. the type of friction that exists between oil and a door hinge

c. the force that one surface exerts on another when two surfaces rub against each other

d. the type of friction that occurs when you rub sandpaper against wood

e. the type of friction that occurs when a wheel turns on a surface

f. a measure of the force of gravity on an object

g. the type of friction that occurs between objects that aren't moving

Name _____ Date _____ Class _____

Review and Reinforce

Newton's Laws of Motion Read pp. 44-51

Understanding Main Ideas

Answer the following questions in the spaces provided. Use a separate sheet of paper if you need more room.

1. Newton's second law of motion describes the relationship among force, mass, and acceleration. Write the equation.

_____

2. How does the diagram at the right illustrate Newton's third law of motion?

_____

_____

_____

If the statement is true, write *true*. If the statement is false, change the underlined word or words to make the statement true.

3. _____ If you increase the force on an object, its acceleration <u>increases</u>.

4. _____ If you increase the mass of an object, its acceleration <u>decreases</u>.

5. _____ To accelerate a 3 kg skateboard at 9 m/s^2, a force of <u>3 newtons</u> is needed.

6. _____ The amount of inertia an object has depends on its <u>speed</u>.

Building Vocabulary

Write a definition for the term on the lines below.

7. inertia

_____

_____