Name	Data	Class
Name	Date	Class

Review and Reinforce

The Nature of Force Read pp. 32-35

Understanding Main Ideas

In the Venn diagram, write the phrases listed below to describe unbalanced forces and balanced forces. Write the characteristics shared by unbalanced and balanced forces in the area of overlap.

change an object's motion

push or pull

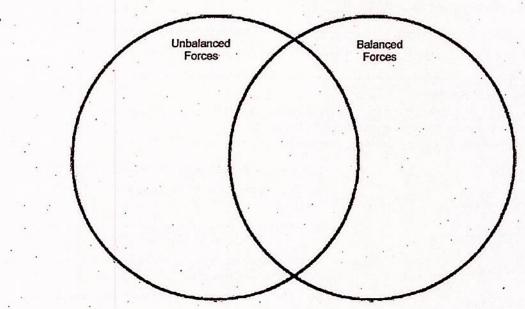
do not change an object's motion

have direction

net force = 0 N

net force does not equal 0 N

1.



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.

- 2. ___ newton
- 3. ____ force
- 4. ___ balanced forces
- 5. ___ unbalanced forces
- 6. ___ net force

- a. the SI unit for force
- b. sum of all forces acting on an object
- c. push or pull
- d. can change an object's motion
- . e. will not change an object's motion

•		
Name	Date	Class
Tank	Date	Olass

Review and Reinforce

Friction and Gravity Read pp. 36-43

Understanding Main Ideas

Answer the following questions in the spaces provided.

- 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.

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

AND ADDRESS OF THE PARTY OF THE	
Understanding Answer the following you need more room	ng questions in the spaces provided. Use a separate sheet of paper if
	d law of motion describes the relationship among d acceleration. Write the equation.
third law of moti	iagram at the right illustrate Newton's on?
Name and Address of the Address of t	
the statement is r words to make	true, write <i>true</i> . If the statement is false, change the underlined word the statement true.
the statement is r words to make	true, write <i>true</i> . If the statement is false, change the underlined word the statement true. If you increase the force on an object, its acceleration <u>increases</u> .
the statement is r words to make	true, write <i>true</i> . If the statement is false, change the underlined word the statement true.

Name	Date	Class	
Review and Reinforce			

Momentum

Read pp. 52-55

	nderstanding Main Ideas swer the following questions in the spaces provided.		
1.	What does it mean to say that momentum is conserved?		
2.	What is the momentum of a 20-kg dog running at a speed of 8 m/s?		
3.	Suppose you have two toy cars. Each has a mass of 0.04 kg. The cars have tape on their bumpers that will cause them to stick together. One car is stopped on the track. The other car, traveling at a velocity of 4 m/s, hits the first car. What is the momentum of the coupled cars? Show your calculations, and explain your answer.		
	uilding Vocabulary /rite a definition for each of these terms on the lines below.		
4.	momentum		
5.	law of conservation of momentum		

Name	Date	Class	
	Date	Oldoo	

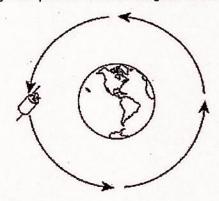
Review and Reinforce

Free Fall and Circular Motion Read pp. 56-59

Understanding Main Ideas

Answer the following questions in the spaces provided.

- 1. What is the only force acting on an object in free fall? _
- 2. Draw an arrow representing centripetal force in the diagram below.



Building Vocabulary

Fill in the blank to complete each statement.

- 3. In ______, an object falling from the top of a building accelerates at 9.8 m/s².
- 4. A(n) _____ follows a curved path in space around Earth.
- 5. _____ causes an object to move in a circular path:
- Together, satellites and ground receivers enable people using ______ to pinpoint their geographic location.

