

## **True or False**Follow the instructions to complete the activity.

NAME	
DATE	

Using information found in the book, verify whether the following statements are true or false. Check your answers in the book. List the page number where you found the information beside your answer.

Statement 1	Gravity affects all objects. It pushes them away from one another.	<ul><li>True</li><li>False</li></ul>	Page Number	
Statement 2	Isaac Newton discovered that the force of gravity depends on the mass of each object.	<ul><li>True</li><li>False</li></ul>	Page Number	
Statement 3	Gravitational fields are invisible.	<ul><li>True</li><li>False</li></ul>	Page Number	
Statement 4	The way each object reacts to gravity depends on its own mass.	<ul><li>True</li><li>False</li></ul>	Page Number	
Statement 5	The strength of the gravitational force between Earth and the Sun is not the same on both objects.	<ul><li>True</li><li>False</li></ul>	Page Number	



**Everyday STEM** 



# **Test Your Knowledge of Gravity**Follow the instructions to complete the activity.

NAME	
DATE	

Test your knowledge of gravity by answering these brain teasers.
1. What is gravity?
2. What did Newton study?
3. What affects gravity?
4. What holds the planets in orbit around the Sun?
5. What causes the tides?





### **Fill in the Blanks**Follow the instructions to complete the activity.

NAME	
DATE	

Using the information found in the book, fill in the missing information below. Gravity is what a baseball toward Earth. 1. Any two objects exert forces on each other. These two forces are 2. in strength and in direction. the Sun, which is a star. Earth 3. The Sun's gravity holds the in orbit. 4. Gravity affects the motion of a object more than the motion 5. of a larger object. All objects have mass. That means every object is surrounded by its own 6.

Page

1 of 1



field.

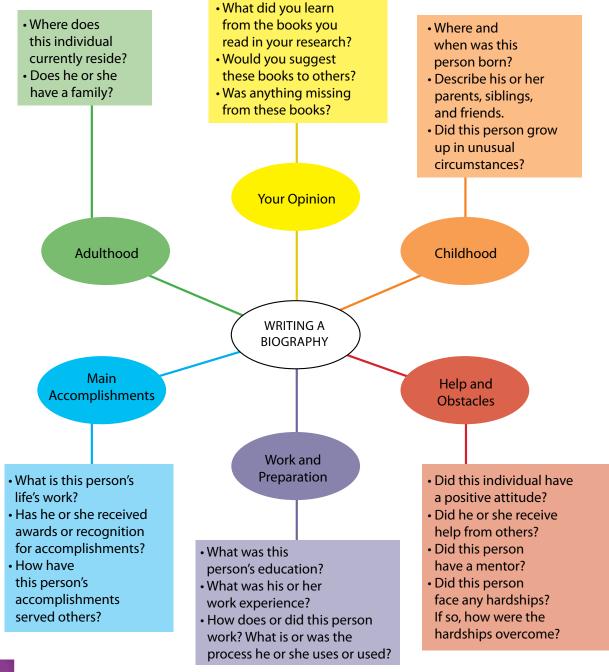


#### Write a Biography Follow the instructions to complete the activity.

NAME

DATE

Many scientists have contributed to the study of gravity. Research online, and choose a scientist that you are interested in learning more about. Then, try researching and writing a biography about that person using this concept web as a guide.





Everyday STEM Gravity

Reference: All Pages







## Write a Letter Follow the instructions to complete the activity.

NAME	
DATE	

After completing the activity on pages 26–27, write a letter to a friend describing
it. The letter should expand on your most important discoveries from the activity.
What was the result? Was the activity difficult to do? What did you learn from it?





## **Quiz**Test your knowledge by answering these quiz questions.

NAME	
DATE	

Ho	w does gravity affect all objects?
Wh	nat fruit made Isaac Newton start thinking about gravity?
Do	es the gravity of faraway stars have much effect on Earth?
ls g	gravity a force?
Ho	w does gravity affect the oceans?
Wh	nat two things affect an object's gravity?
ls g	gravity important in sports?
Wh	nere is the center of mass between two objects that are exactly the same
	gravity stronger on Earth or the Moon?



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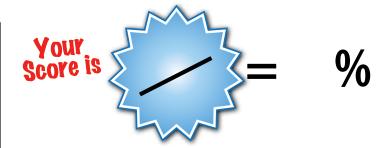
#### **Key Words Match-Up**

Write the words from the list below in the box above the correct definition for each word.

NAME	
DATE	

#### **KEY WORDS**

exert orbits invisible tides mass universe



- daily rises and falls in sea level
  the amount of matter in an object
  to apply or make use of
- repeatedly travels around another object because of gravity

  5. not able to be seen

  6.

everything that exists



