True or False

Follow the instructions below 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	Cars that are not moving have no momentum.	○ True ○ False	Page Number	
Statement 2	A fast-moving train has high speed and high mass.	○ True ○ False	Page Number	
Statement 3	A moving object does not keep its momentum unless a force causes it to stay the same.	○ True ○ False	Page Number	
Statement 4	Hitting a baseball causes the ball's momentum to change.	○ True ○ False	Page Number	
Statement 5	In football, a small player standing still has lots of momentum.	○ True ○ False	Page Number	

Test Your Knowledge of Momentum

Follow the instructions below to complete the activity.

NAME

DATE

Test your knowledge of momentum by answering these brain teasers.

1. What is momentum?

2. What is mass?

3. What does friction do to an object?

4. Explain how collisions affect momentum.

5. What happens to a baseball when it is hit?

Fill in the Blanks

Follow the instructions below to complete the activity.

NAME _____

DATE _____

Using the information found in the book, fill in the missing information below.

1. Any object that is _____ has momentum.

2. Trains need a large amount of _____ in order to slow to a stop.

3. A hockey puck loses momentum because of _____ between the puck and the ice.

4. Two things determine an object's momentum. They are _____ and mass.

5. A truck has more momentum when it is moving _____.

6. During a collision, two objects exert _____ on each other.

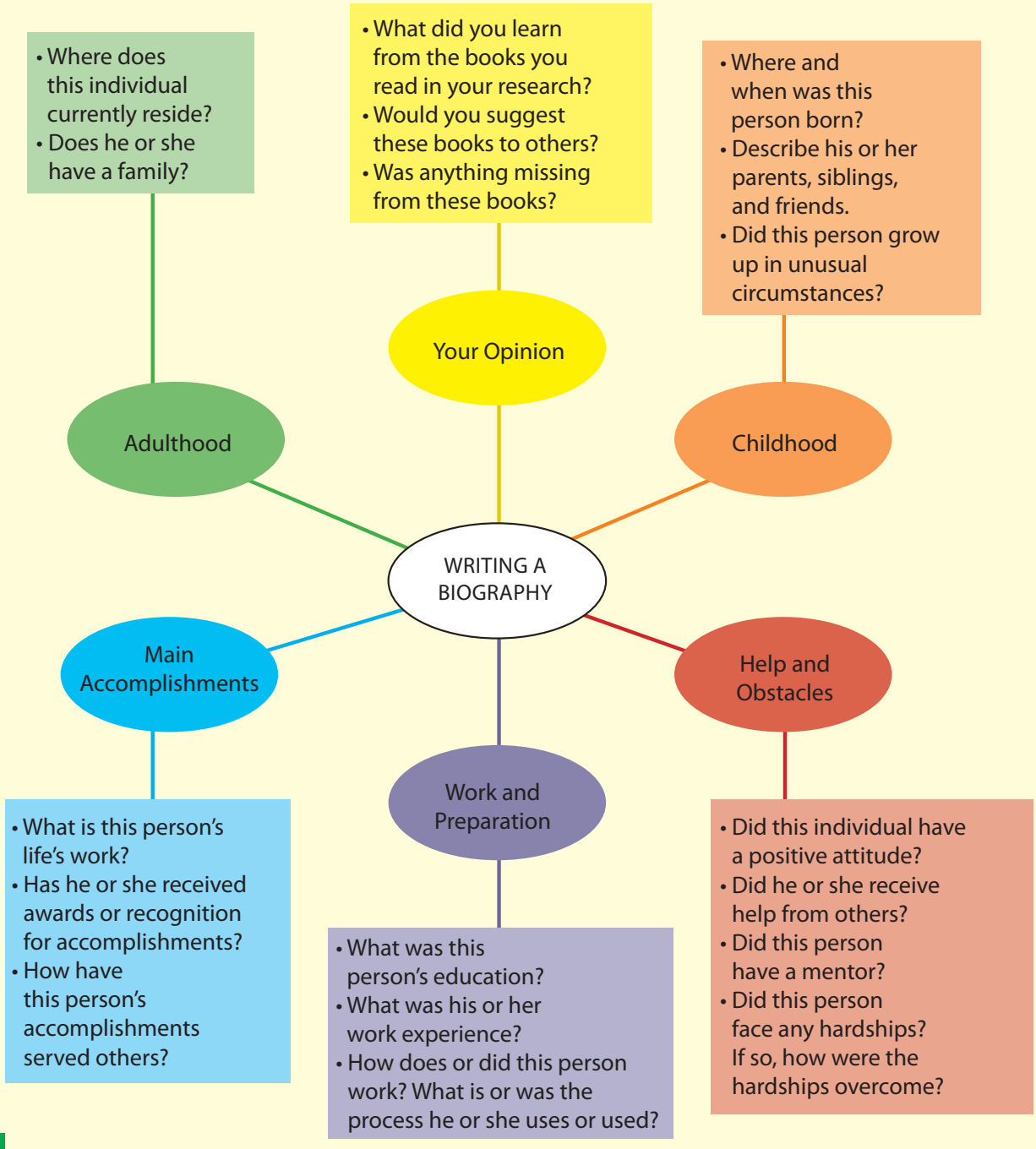
Write a Biography

Follow the instructions below to complete the activity.

NAME _____

DATE _____

Many scientists have contributed to the study of momentum. 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
Momentum
Reference: All Pages

Write a Letter

Follow the instructions below 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

1. Does an object that is not moving have momentum?

2. What two things determine an object's momentum?

3. Why is it hard to stop a fast-moving train?

4. Are mass and momentum the same thing?

5. Is friction a force?

6. What is a collision?

7. Do collisions affect momentum?

8. Will a moving object stop moving if no other force acts on it?

9. What does velocity describe?

10. Can friction stop an object with momentum?

Key Words Match-Up

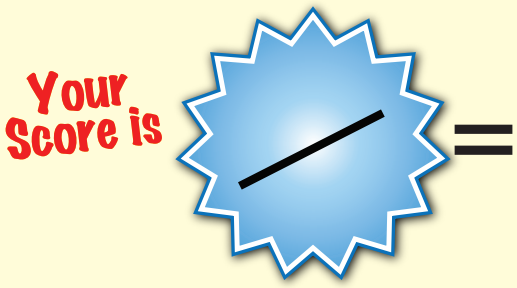
Write the words from the list below in the box above the correct definition for each word.

NAME _____

DATE _____

KEY WORDS

collision	motion
exert	opposite
friction	velocity
mass	



1. _____
to apply or make use of

2. _____
the amount of matter in an object

3. _____
different or reverse

4. _____
the speed of an object and the direction it moves in

5. _____
when two objects come in contact

6. _____
a force that happens when two objects rub against each other

7. _____
movement

Quiz Answer Key

Compare your quiz answers with the answer key below.

NAME

DATE

1. No
2. Velocity and mass
3. Because it has a lot of momentum
4. No
5. Yes
6. When one object bumps into another
7. Yes
8. No
9. The speed and direction of an object
10. Yes