

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

Car engines would get too cold without oil.

☐ True

☐ False

Page
Number

Statement 2

Water increases the friction between the body and a water slide.

☐ True

☐ False

Page
Number

Statement 3

Adding water or oil usually makes it easier for objects to slide and move.

☐ True

☐ False

Page
Number

Statement 4

Wheels are used in many everyday objects to reduce friction.

☐ True

☐ False

Page
Number

Statement 5

When you swim, there is friction between you and the water.

☐ True

☐ False

Page
Number





Test Your Knowledge of Friction

Follow the instructions below to complete the activity.

NAME

DATE

Test your knowledge of friction by answering these brain teasers.

1. What is friction?

2. How can we reduce the effects of friction?

3. Why are rockets covered with special tiles?

4. Why do water slides have low friction?

5. What is resistance?

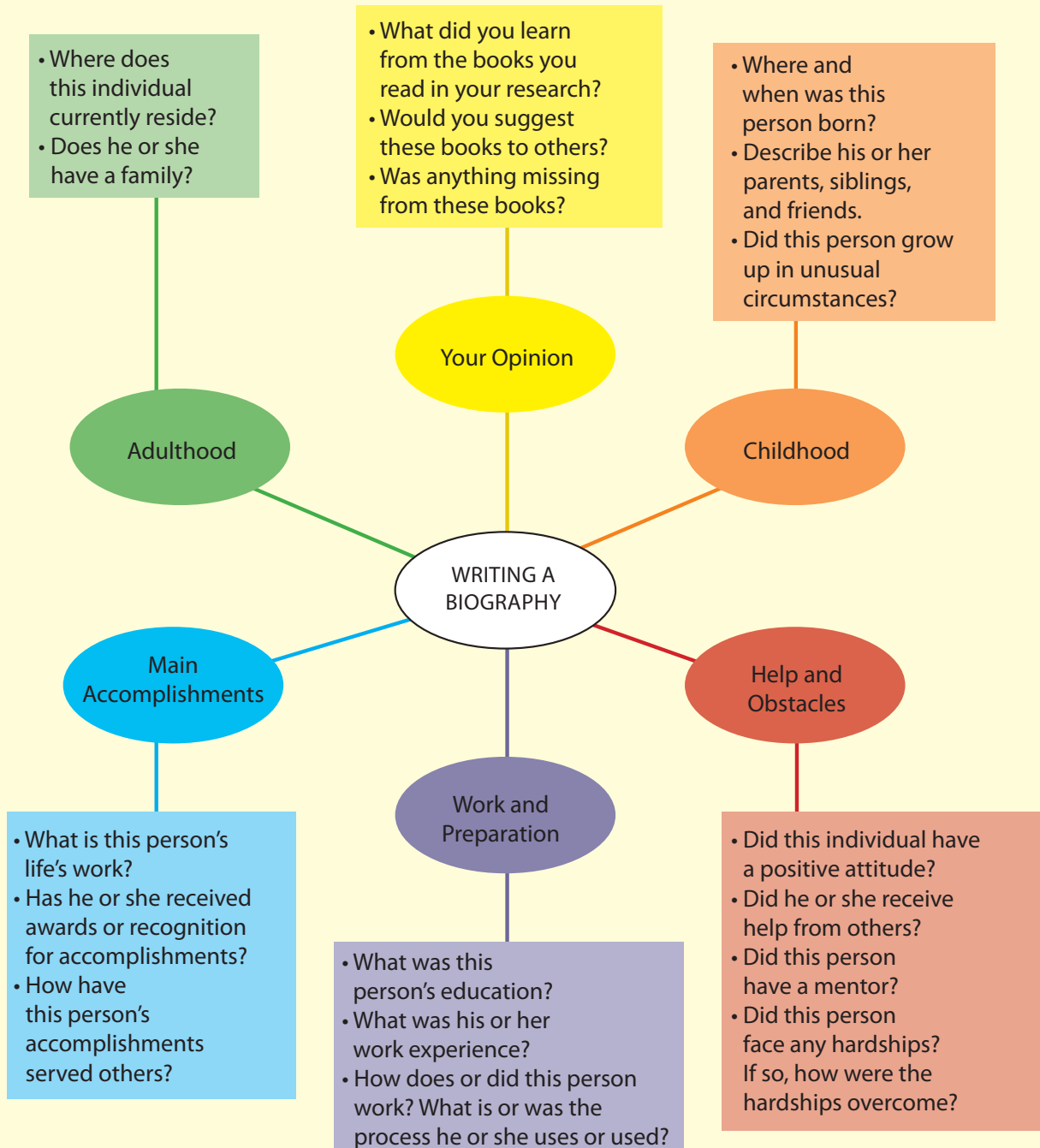


Using the information found in the book, fill in the missing information below.

1. When friction slows down a moving object, that energy causes the temperature to .
2. Electrons are tiny charged .
3. Friction happens when you push an object across a .
4. Without friction, we would and slide whenever we tried to walk around.
5. reduces friction between the parts of a bike chain.
6. The around Earth is made of gases.



Many scientists have contributed to the study of friction. 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.





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?



1

When does friction happen?

2

What would happen without friction?

3

What is friction in gases and liquids called?

4

Why do ice skates move easily over ice?

5

Do rough or smooth objects have more friction?

6

Does a water slide have more or less friction than a dry slide?

7

Why is a wet floor slippery?

8

Which parts of a bike use friction to stop?

9

What liquid is often used to help the parts of a machine move more smoothly?

10

How does friction affect a rocket?



Key Words Match-Up

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

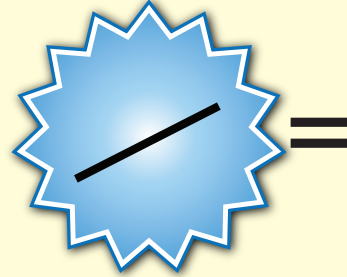
NAME

DATE

KEY WORDS

atmosphere	hinge
axles	prevent
brakes	reduce
electrons	substance

**Your
Score is**



%

1.
gases that surround a planet
2.
parts of a vehicle designed to help it stop or keep it stopped
3.
an object that connects a door to a wall and allows the door to open
4.
to stop something from happening

5.
charged particles that can be in atoms or on their own
6.
bars that wheels spin on
7.
any type of material, such as a solid, liquid, or gas
8.
to make less



- 1** When two objects rub against each other
- 2** Things would slide around
- 3** Resistance
- 4** Skates create very little friction on ice
- 5** Rough
- 6** Less
- 7** Water reduces friction
- 8** Brakes
- 9** Oil
- 10** It makes it very hot

