

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

Light is what makes colors possible.

☐ True

☐ False

Page
Number

Statement 2

All objects give off and take in electromagnetic waves.

☐ True

☐ False

Page
Number

Statement 3

The colors in the visible spectrum have very long wavelengths.

☐ True

☐ False

Page
Number

Statement 4

Electromagnetic waves do not carry energy.

☐ True

☐ False

Page
Number

Statement 5

Red light has the shortest wavelength of the colors in the rainbow.

☐ True

☐ False

Page
Number



Test Your Knowledge of Light

Follow the instructions to complete the activity.

NAME

DATE

Test your knowledge of light by answering these brain teasers.

1. What is light?

2. What kind of waves can be seen by humans?

3. What is a wavelength?

4. When do light rays refract?

5. How do doctors use X-rays?



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.

1. Reading in light can make your eyes tire quickly.
2. The wavelengths of the colors in the visible spectrum are so that they are microscopic.
3. All colors travel at approximately the same in air.
4. A banana more yellow light.
5. A rainbow shows the colors of the visible .
6. X-rays and visible light are part of the spectrum.



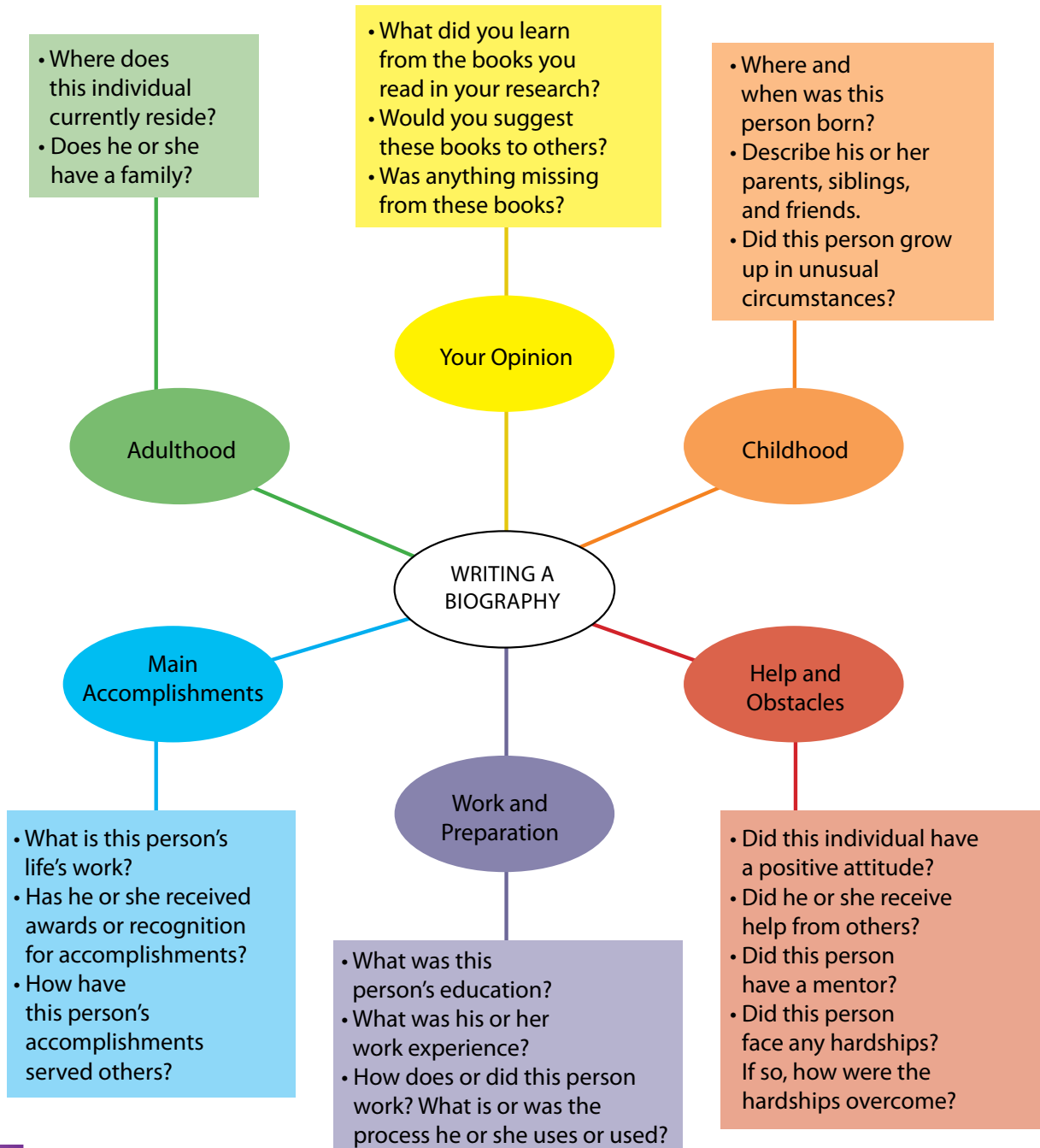
Write a Biography

Follow the instructions to complete the activity.

NAME

DATE

Many scientists have contributed to the study of light. 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 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

What is the opposite of darkness?

2

What is another name for the light we can see?

3

What color light does a pumpkin mainly reflect?

4

What tiny particles make up electromagnetic waves?

5

Which color has the shortest wavelength?

6

Why does a mirror reflect most light?

7

Do black or white objects absorb more light?

8

What are the seven colors of the rainbow?

9

Can light pass through glass?

10

How do light waves change when they refract?



Key Words Match-Up

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

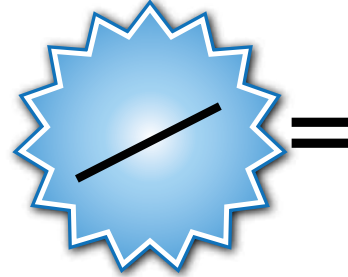
NAME

DATE

KEY WORDS

electromagnetic waves	refract
microscopic	spectrum
photons	wavelength
reflect	

**Your
Score is**



%

- too small to see without a microscope
- to bounce off of something
- to change the direction of a wave when it passes from one material into another
- particles that make up light rays

- waves that have both electric and magnetic properties
- a range that changes gradually from one end to the other
- the length of one cycle, or one complete repetition, of a wave

