

Using the information on pages 8–9 of the book, fill in the blanks with the name of the observatory in each location. Use information found in the book and research online to briefly explain why each location is important or unique.



1

2

3

4



## True or False

Follow the instructions to complete the activity.

NAME

DATE

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

Statement 1	Observatories are buildings with large telescopes.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 2	The STEM acronym was created in 2010.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 3	Galileo Galilei was a scientist who lived in Greece.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 4	Spectrograph telescopes use mirrors to make objects look closer.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 5	Solar panels were developed for space travel.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>



## Tools of the Trade

Follow the instructions to complete the activity.

NAME

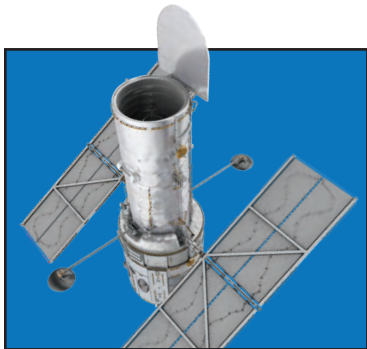
DATE

Using information found in the book, name each tool shown below and describe how it is used.



Name

Description



## Fill in the Blanks

Follow the instructions to complete the activity.

NAME

DATE

Use the information found in *Astronomer* to help you complete the following activity.

1. Space  include comets and eclipses.
2. Early astronomers proved that planets  the Sun.
3. The James Webb Space Telescope (JWST) will have the power to see a  from 24 miles away.
4. The Giant Magellan Telescope is in .
5. Astronomers can make up to around  per year.
6.  helps astronomers figure out how much fuel a spaceship needs to travel to the Moon.



## Know Your Numbers

Follow the instructions to complete the activity.

NAME

DATE

Using information from the book, select an answer from the right and write the letter in the box beside the statement.

Galileo's first telescope made objects look this many times closer.

☐

**A. 40**

Hubble takes pictures of galaxies this many billion light years away.

☐

**B. 6,000**

There are observatories in this many countries.

☐

**C. 13**

There are about this many astronomers working in North America.

☐

**D. 90**

More than this percentage of infant formula contains an ingredient developed for NASA's Mars missions.

☐

**E. 8**



## 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

aerospace	experiments	satellites
constellations	galaxies	solar system
digital images	infrared light	teleconference
doctoral degrees	light years	telescopes
eclipses	optical	
elements	orbit	

**Your  
Score is**



**%**

- |   |  |
|---|--|
| 1. <input type="text"/><br>groups of stars that form shapes   | 9. <input type="text"/><br>branch of technology related to space flight  |
| 2. <input type="text"/><br>events that involve the total or partial covering of one celestial body by another | 10. <input type="text"/><br>pictures created by a computer   |
| 3. <input type="text"/><br>substances made from one type of atom  | 11. <input type="text"/><br>large groups of stars  |
| 4. <input type="text"/><br>machines that move through space and send information back to Earth                | 12. <input type="text"/><br>tests used to discover or prove something  |
| 5. <input type="text"/><br>the distance light travels in one year   | 13. <input type="text"/><br>type of light waves that are invisible to the eye, but can be felt as warmth on the skin |
| 6. <input type="text"/><br>to move in a circle around an object in space                                      | 14. <input type="text"/><br>of or related to the eye and seeing  |
| 7. <input type="text"/><br>highest levels of college programs   | 15. <input type="text"/><br>a group of bodies in space that moves around a main star, such as the Sun                |
| 8. <input type="text"/><br>tube-shaped instruments that use mirrors to make objects look closer               | 16. <input type="text"/><br>a phone or computer meeting between people who are in different locations                |



## Quiz

Test your knowledge by answering these quiz questions.

NAME

DATE

1

What does STEM mean?

2

What state hires the most astronomers?

3

What kind of telescope studies light in space?

4

What is the name of the NASA space telescope that will replace the Hubble?

5

What percentage of astronomers in the United States teach at college?

6

How many times bigger did Galileo's first telescope make objects appear?

7

In what year will the Giant Magellan Telescope start to operate?

8

How many medical devices can be linked to NASA technology?

9

How many people work in STEM across the United States?

10

The Hubble Space Telescope sees galaxies how many billions of light years away?

