

Using the information on pages 8–9 of the book, fill in the blanks with the name of the arboretum or botanical garden 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 *Botanist*, 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

Botany is a good career choice for people who love nature.

True

False

Page
Number

Statement 2

Botanists who work in botanical gardens study new plant species and new ways to use plants.

True

False

Page
Number

Statement 3

A microscope is used for looking at the largest parts of plants.

True

False

Page
Number

Statement 4

The Linnaean system assigns two names to every species.

True

False

Page
Number

Statement 5

Plants need darkness to grow.

True

False

Page
Number



STEM Careers

Botanist

Reference: All Pages

Page
1 of 3

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Tools of the Trade

Follow the instructions to complete the activity.

NAME

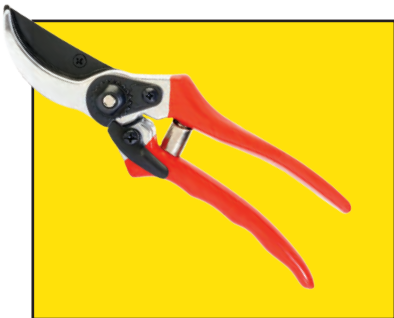
DATE

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



Name

Description



STEM Careers

Botanist

Reference: Pages 14-15

Fill in the Blanks

Follow the instructions to complete the activity.

NAME

DATE

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

1. A scientist is a botanist who studies ways to help farmers grow crops in all kind of conditions.
2. The word botany comes from the ancient Greek word . This means "pasture" or "plants."
3. Studying plant growth in a helps botanists understand how seeds react to different weather conditions.
4. Botanists must keep careful lists of the plants they and study each day.
5. Botanists research how the affects a plant's health.
6. Through lab experiments with , botanists have learned to change the way farmers grow certain crops.



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Botanist

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

There were this many classes of animals in Linnaeus's first system, including mammals, fish, and insects.

A. 1,100

A. thaliana was the first plant grown in space, in this year.

B. 180

Early microscopes made small things look up to this many times bigger.

C. 6

The American Society of Plant Taxonomists has more than this many members.

D. 1982

NASA's Advanced Plant Habitat has more than this many sensors and 3 cameras to monitor plant growth.

E. 10



Key Words Match-Up

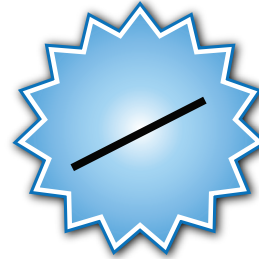
Write the words from the list below in the box above the correct definition for each word.

NAME

DATE

KEY WORDS

- | | |
|----------------|--|
| arboretums | erosion |
| atoms | exhibits |
| cells | experiments |
| classified | genetic |
| climate change | <i>International Space Station (ISS)</i> |
| conservation | laboratories |
| elements | microscopes |
| endangered | organisms |
| environment | |



Your Score is

%

- the basic units of all things
- organized or arranged
- the preservation of Earth's resources
- at risk of going extinct
- tests used to discover or prove something
- related to the features that pass naturally from one living thing to another
- a large satellite in space where astronauts live and study for long periods of time
- weather patterns that change over a long period of time

- botanical gardens devoted to trees
- the smallest parts of any living thing
- instruments for viewing small objects
- substances made from one type of atom
- everything living and nonliving on Earth
- items or collections on display in a museum
- living things made of one or more cells
- rooms designed for scientific experiments
- the natural process of moving soil and rocks from one place to another



STEM Careers

Botanist

Reference: All Pages

Quiz

Test your knowledge by answering these quiz questions.

NAME

DATE

1

What is botany?

2

What does STEM stand for?

3

Why might a botanist take a picture of a plant?

4

What basic education is required to be a botanist?

5

Where are some of the places botanists work?

6

What is the purpose of pruning shears?

7

How much does it cost to send fresh food into space?

8

What is the purpose of staining?

9

How many different kinds of plants are there?

10

A botanist who works for the National Park Service makes about how much money per year?

