

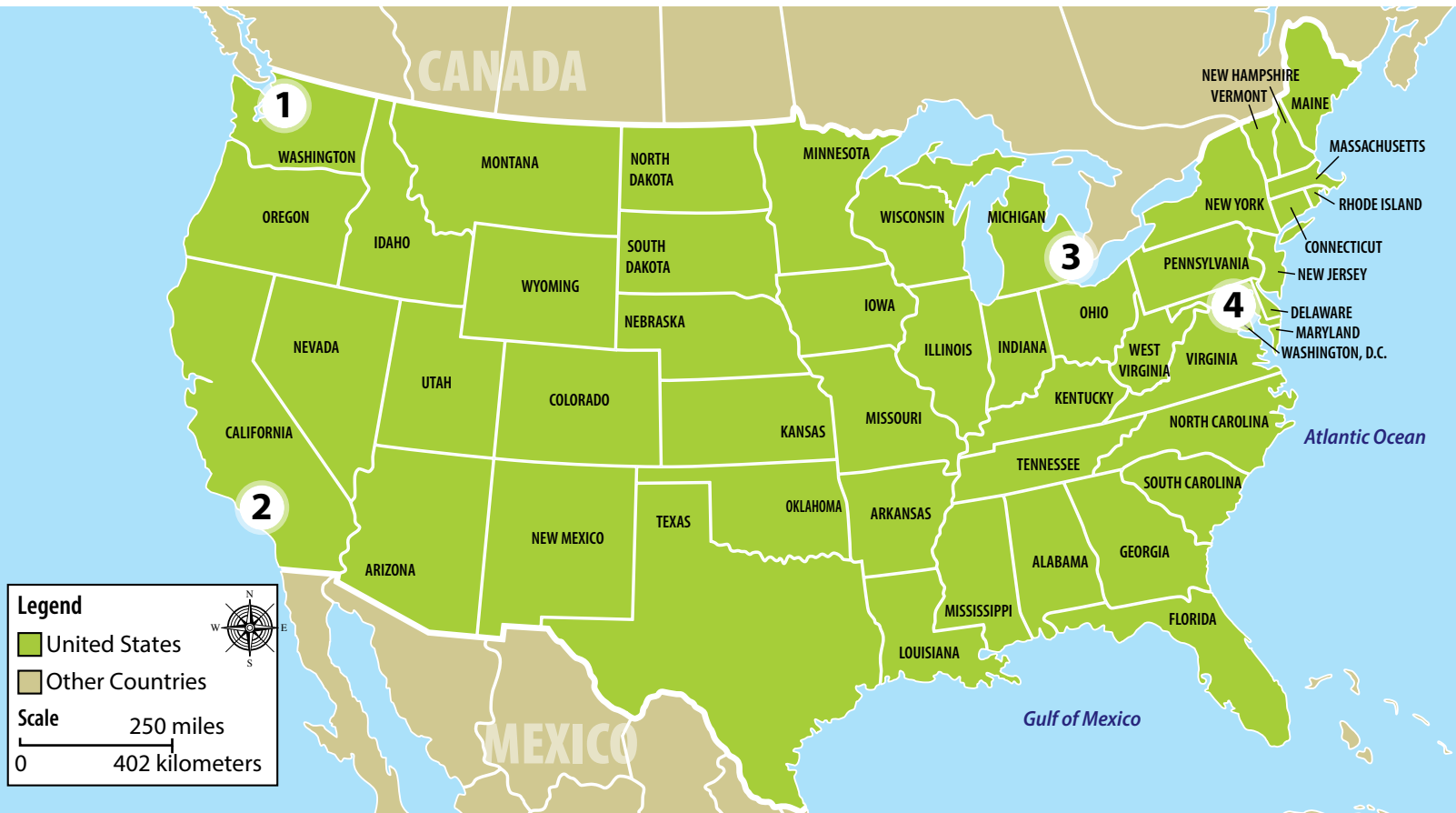
# Map Activity

Follow the instructions to complete the activity.

NAME

DATE

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



1

2

3

4



## Tools of the Trade

Follow the instructions to complete the activity.

NAME

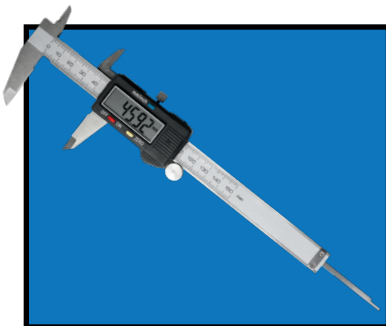
DATE

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



**Name**

**Description**



**STEM Careers**

**Mechanical Engineer**

Reference: Pages 14-15

**Page**  
1 of 2

**LIGHTBOX**  
LEARNING

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## True or False

Follow the instructions to complete the activity.

NAME

DATE

Using the information in *Mechanical Engineer*, 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

Today's mechanical engineers continue to invent things that help people.

☐ True

☐ False

Page  
Number

### Statement 2

Mechanical engineers work to improve human productivity through the use of medicine.

☐ True

☐ False

Page  
Number

### Statement 3

In 2020, U.S. News and World Report ranked mechanical engineering #1 on its best engineering jobs list.

☐ True

☐ False

Page  
Number

### Statement 4

Mechanical engineers in the construction industry may spend part of their day reading atlases.

☐ True

☐ False

Page  
Number

### Statement 5

Gauge blocks are used to make sure that a mechanical engineer's measuring tools are accurate.

☐ True

☐ False

Page  
Number



## Fill in the Blanks

Follow the instructions to complete the activity.

NAME

DATE

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

1. A mechanical engineer at a hospital may monitor and repair the  system.
2. Mechanical engineers invent devices that help people with spinal cord  regain the use of their limbs.
3. A force gauge measures how much force it takes to  something.
4. While many robots look like machines, some are also being made to resemble .
5. Until the 1700s AD, steel was mostly used to make .
6. Mechanical engineers also teach people how machines work. Some of these machines are used to grow  or save water.



## 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 its letter in the box beside the statement to which it refers.

As a group, engineers earn more than this many times the national average of other workers.

**A. 2**

There are currently more than this many million robots working for industries worldwide.

**B. 20**

Mechanical engineers make up about this percentage of all engineers working in the United States.

**C. 700**

Robots at some warehouses can package up to this many boxes per hour.

**D. 1.6**

1 in this many mechanical engineers works in building construction and design.

**E. 5**



## Key Words Match-Up

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

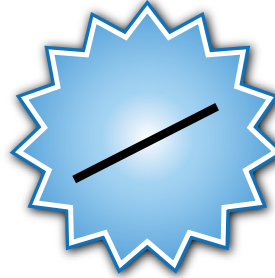
NAME

DATE

### KEY WORDS

aerospace	diameter
architects	experiments
bachelor's degree	greenhouse gases
blueprints	iron ore
climate change	prosthetic

Your  
Score is



=

%

1.

distance across a round object  
or space

2.

the detailed diagrams of something  
to be built

3.

tests used to discover or  
prove something

4.

a rock that holds iron

5.

people who design buildings

6.

gases in Earth's atmosphere that  
trap heat

7.

the first level of a college program  
of study

8.

a long-term change in the average  
weather patterns

9.

the branch of technology related  
to space flight

10.

a replacement limb, such as an arm  
or leg



## Quiz

Test your knowledge by answering these quiz questions. .

NAME

DATE

**1** In what year was the American Society of Mechanical Engineers founded?

**2** What does STEM stand for?

**3** Where is the NASA Jet Propulsion Laboratory?

**4** What is the last step in the scientific method?

**5** When did Thomas Newcomen build the first steam engine?

**6** What do calipers measure?

**7** When did the first robotic vacuum make its appearance?

**8** What are the main materials found in steel?

**9** What is the device that measures the volume and mass of gases and liquids flowing through a pipe called?

**10** About how many mechanical engineers work in the United States?

