

## Unit 1.1 What is a machine?

### 1. Match.

Work

1) have just one or two parts.

Simple machines

2) means the use of a force to move an object across a distance.

Complex machines

3) are made up of simple machines that work together.

 **LIVEWORKSHEETS**

## 2. Fill in the gaps.

**pulley      wheel and axle      inclined plane**  
**wedge      lever      screw**

- 1) \_\_\_\_\_ is made of a round object, a wheel, attached to a post called an axle.
- 2) \_\_\_\_\_ is made from two slanted sides that end in a sharp edge.
- 3) \_\_\_\_\_ is a stiff bar that rests on a support.
- 4) \_\_\_\_\_, or a ramp, is a slanted surface.
- 5) \_\_\_\_\_ can make work easier in two ways. It can decrease the amount of force needed to move an object. It can also change the direction that the force is applied.
- 6) \_\_\_\_\_ is an inclined plane wrapped around a center post.

3. Draw a line from each simple machine to its correct part on the bicycle.

- A) lever
- B) pulley
- C) wheel and axle



4. Make a list of three complex machines.

1) \_\_\_\_\_ 2) \_\_\_\_\_

3)  **LIVEWORKSHEETS**

## Unit 1.2 What is the design process?

### 5. Fill in the gaps.

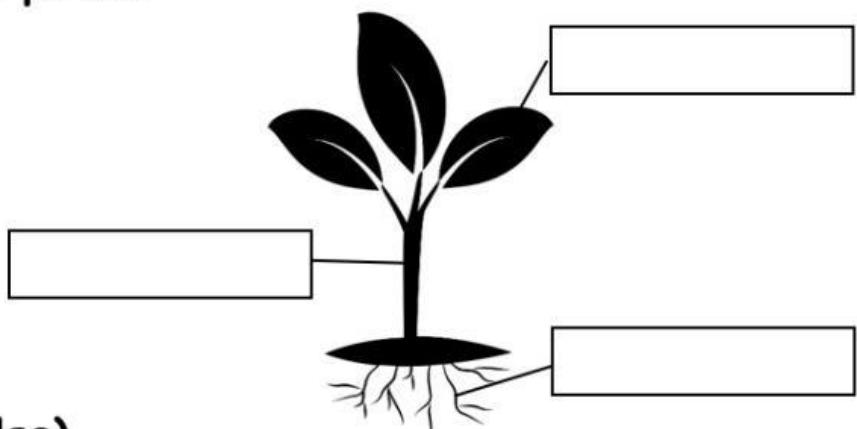
research	design process	results
prototype	evaluate	redesign

- 1) The \_\_\_\_\_ is a step-by-step method used to solve a problem.
- 2) An \_\_\_\_\_ is any person who designs new technologies.
- 3) To \_\_\_\_\_ means to look for facts about something.
- 4) A \_\_\_\_\_ is the first working product that uses a design.
- 5) \_\_\_\_\_ means to find out how well something works.
- 6) To \_\_\_\_\_ means to make a prototype better.
- 7) Engineers communicate \_\_\_\_\_ about their tests to people working with them.

## Unit 2.1 How do plants use stems and roots to grow?

### 6. Label the parts of the plant.

- Leaf
- Roots
- Stem



### 7. Circle T(True) or F(False).

1) Pumpkin stems grow under the ground.

T      F

2) Stems support the roots of plants.

T      F

3) Roots move water to the leaves.

T      F

8. Write the names of the two types of roots.

1) \_\_\_\_\_

2) \_\_\_\_\_

9. Fill in the gaps:

leaves

nutrient

roots and stems

ground

1) Plants need \_\_\_\_\_ to take in and move materials plants need to live and grow.

2) The root system of a plant is often below the \_\_\_\_\_.

3) Roots store food made by the plant's \_\_\_\_\_.

4) A \_\_\_\_\_ is any material needed by living things for energy, growth, and repair.

## 10. Match the columns.

- a) Cactuses and potatoes
- b) Cactus stems
- c) Potatoes
- d) Potato's "eyes"

- become new plants.
- grow below the ground.
- have different types of stems.
- grow above the ground



## 11. Fill in the gaps.

reproduce      pollen      pollinate

germinate      nutrient      life cycle      sugar

- 1) Flowers have different parts. One part makes \_\_\_\_\_. It is a fine powder produced by flowers and cones.
- 2) Animals or wind can \_\_\_\_\_, or carry pollen to, another flower.
- 3) When plants \_\_\_\_\_, they make more of the same kind.
- 4) To \_\_\_\_\_ means to begin to grow.
- 5) The leaves use sunlight to make \_\_\_\_\_. The plant uses it for food.
- 6) The stages through which a living thing passes during its life are called a \_\_\_\_\_.

12. Conifer plants do not grow flowers. What do they grow to make seeds?

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