Name _____ Date _____

Greek Roots chron, photo and tele: Word Parts in Science and Technology

Directions: Learn the Greek roots chron, photo and tele. Then use them to unlock new words. When a question explains another word part, join it to the root and test the meaning against the sentence.

1. Match each Greek word part (chron, photo, tele, scope, graph and syn) to its meaning. Write the letter of the matching answer on each line.

1. _____ chron
2. _____ photo
3. _____ tele
4. _____ scope
5. _____ graph
6. _____ syn

A. to look at
B. time
C. sound
D. to write or draw
E. small
F. together
G. far or far away
H. light

2. Use the bank to complete each sentence. Every bank word has a Greek root, and one word will be left over.

Word bank

photography • photosynthesis • telescope • synchronize • chronological • telegraph

Ana pointed her _____ at the night sky and saw craters on the faraway moon. The timeline lists the events in _____ order, from the oldest to the newest. Before the race, the timers _____ their stopwatches so that all of them show exactly the same time. In the 1800s, the _____ carried messages over long wires as clicks of code, letting people send news across the country in minutes. During _____, a plant uses energy from sunlight to make its own food.

3. "Each *photon* that strikes a solar panel carries a tiny bit of energy from the sun."

Based on its root, what is a photon?

A. A tiny particle of light
B. A unit of time
C. A kind of solar panel
D. A tiny particle of sound

4. With a *telephoto* lens, Mr. Diaz got a sharp picture of a hawk perched in a treetop far across the field. What does a telephoto lens help a photographer do?

A. Take pictures in total darkness
B. Take clear pictures of faraway things
C. Take pictures underwater
D. Print pictures faster

5. "Before satellites, sailors used a *chronometer* to work out how far east or west their ship had sailed."

Meter means a device that measures. What is a chronometer?

A. An instrument that measures time very exactly
B. A map of the ocean floor
C. A compass that points north
D. A tool that measures how deep the water is

6. In the fantasy novel, the twins could share secret plans by *telepathy*, without saying a single word. *Pathy* comes from a Greek word for feeling. What is telepathy?

A. Sharing thoughts or feelings across a distance without speaking
B. Talking on the phone
C. Reading lips from across a room
D. Writing coded letters

7. "In the movie about ancient Rome, a soldier wearing a wristwatch was an *anachronism*."

Ana can mean against or backward. What is an anachronism?

A. Something placed in the wrong time period
B. A costume that does not fit well
C. A famous Roman soldier
D. A movie filmed in another country

8. "Because of *phototropism*, the houseplant on the windowsill slowly bent its stems toward the glass."

Trop comes from a Greek word meaning turn. What is phototropism?

A. A plant's need for water
B. A disease that makes stems droop
C. A plant's roots growing down into the soil
D. A plant's turning in response to light

9. "The pioneer's diary is a *chronicle* of her family's journey west by covered wagon, written day by day."

What is a chronicle?

A. A drawing of a covered wagon
B. A list of supplies for a trip
C. A record of events in the order they happened
D. A map of the trail west

10. "Some eyeglasses have *photosensitive* lenses that turn darker outdoors in bright sunshine."

What does *photosensitive* mean?

A. Easy to scratch
B. Able to make faraway things look close
C. Very heavy
D. Reacting to light

11. Because the scientists worked on three different continents, they held a *teleconference* once a week. What is a teleconference?

A. A trip to visit one another
B. A meeting by phone or video between people who are far apart
C. A long letter mailed to each scientist
D. A meeting in one crowded room

12. The word *photo* by itself is short for photograph, but the root *photo* means light. In which of these does *photo* mean light?

A. a photoreceptor in the eye
B. a photo booth
C. a photo album
D. a photo contest