

Latin Root *terra*; Greek Roots *geo*, *photo*

FOCUS

Identifying and understanding Greek and Latin roots can help you define difficult and unfamiliar words. When you know the meaning of a root, you can determine the meanings of many words that contain that root.

The Latin root *terra* means “land” or “Earth.” For example, the word *terrain* means “a type of land.” The Greek root *geo* means “Earth.” For example, the word *geography* means “study of Earth’s surface.” The Greek root *photo* means “light.” For example, the word *photograph* means “a picture created with the use of light.”

PRACTICE Read each word. Circle the roots *terra* (or *terr*), *geo*, or *photo* in each one. Then write the definition of the word on the line.

1. terrain

2. geographer

3. photographer

4. photocopier

5. terra-cotta

6. terrier

APPLY Select the word with a Greek or Latin root that best fits the definition and write it on the line. Then use each word in a sentence.

geocentric	geode	geology	photocopy
photogenic	photosynthesis	territorial	territory

7. An area of land _____

8. A hollow rock that has crystals inside _____

9. Producing light; describes people who are photographed well _____

10. Study of rocks _____

11. A natural process in which light helps to create food for plants _____

12. To make a copy _____

13. Relating to the center of Earth _____

14. Having characteristics of land _____

Vocabulary

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Review the selection vocabulary words from “Ookpik” and “Critters Crossing!”

aerial
ancestry
blustery
downy
emerging
exceptionally
functions

indifferent
lurched
scurrying
seldom
specialized
veered
vegetation

PRACTICE Read each sentence. Think about the meaning of the underlined word or words. Write the vocabulary word on the line that is similar in meaning.

1. The driver changed direction to the right suddenly to avoid hitting a pothole.

2. The baby chick’s fuzzy, soft feathers kept its body warm. _____

3. The student was not often late for school. _____

4. The photograph is from an interesting above-ground viewpoint. _____

5. The girl wore a thick coat on the violently windy day. _____

6. The truck moved forward suddenly and then broke down. _____

7. The main character was rising to prominence as the hero. _____
8. He was not interested about the outcome of the basketball game. _____
9. She was researching the family history of the town's settlers. _____
10. The parade was unusually and unexpectedly long this year. _____
11. The plant life is starting to bloom now that it is spring. _____
12. The mice were moving quickly with small steps on the floor. _____
13. The carpenter has specifically-purposed tools to ensure quality. _____
14. The necessary actions of an alarm clock are to tell time and to wake a sleeping person. _____

APPLY Read each question. Think about the meaning of the underlined vocabulary word. Write your answers on the line.

15. How might you take an aerial photograph?

16. What is something you seldom do?

17. When have you been indifferent about something?

18. What is the vegetation like around your school?

Finding the Perfect Gift

On a blustery January morning, Maria walked with her grandmother along the main street of their small downtown area. People scurried from store to store, trying to stay warm. Maria was grateful for her warm, down coat and pulled it closer to her body. Her grandmother veered into one of the shops, and Maria followed her, wondering what she might find inside.

Inside, Maria could tell that most of the items in the store were old. This must be the antique market that her grandmother described to her over the phone. Maria seldom went in the shops of the downtown area, but her grandmother liked to talk to all the owners and see what each sold. They were looking for a gift to give her grandfather. Maria held up an old watch and asked, “What about this?”

Grandmother responded, “Is it functional? Although your grandfather likes to put things together, he would need help making it work!” Maria asked the sales clerk if the watch functioned properly. It did not, so she placed it back where she found it. They continued to look around the shop at different items.

Maria noticed a little motorized truck and turned it on. It lurched around and then stopped. She turned it on and off again, and it did the same thing. She wanted to find a different kind of gift, but one that her grandfather would enjoy. Maria’s grandmother found an old advertising poster. Maria looked at it indifferently, and then shook her head. She wanted something exceptional, not ordinary.

Maria and her grandmother continued to go through the market looking at many old things, including glassware, old tools, old furniture, and old artwork. They enjoyed discussing the possible uses of some of the items, imagining how their ancestors would have used some of the unidentifiable tools. Then, that prompted a discussion of her grandfather’s ancestry.

They began looking for items that reflected his love of food, especially those foods that specialized in traditional methods. He loved breads made from hand-ground flour and butter made from old churns. So, then Maria and her grandmother began to look for old grinders or churns, but the shop did not have any of either of those items. Disappointed, Maria said, “As much as I hate to say it, we may need to brave the cold and check out another shop.”

Maria and her grandmother bundled up and hurried to the shop next door. This store had specialty breads and cheeses. All the foods looked amazing. The shop also had a variety of meats and canned jams and jellies. They sampled some of the specialized cheeses made from local dairy. Maria's grandfather was a farmer who appreciated local foods. Her grandmother said he had enough at home.

As they were getting ready to leave, Maria looked out the large window and noticed a shop window across the street full of green vegetation. She exclaimed, "Look at all the plants in the shop across the street! Perhaps we will find something in that shop." Her grandmother agreed, and soon they were facing the blustery winds on their way to the shops across the street.

Inside the shop with the lush vegetation, Maria and her grandmother found many arrangements of plants and flowers. It was such a nice contrast to the weather outside, and they tried to imagine which one grandfather might enjoy. He liked to care for the plants outside of the house, but as grandmother reminded Maria, "Although he waters the outdoor plants in the summer, he seldom waters the plants inside the house. So, maybe we should check out another shop."

"I would love to find a shop that would make something one-of-a-kind," said Maria.

The shop owner suggested, "There is an exceptional emerging artist who has recently opened a shop just two doors down. Perhaps she could help you find that one-of-a-kind gift."

"That's a great idea, depending on the artwork she does," said Maria. "Well, what do you think?"

"I think we are running out of shops to find something, so let's go!" replied her grandmother.

Once again, they braved the blustery weather and scurried two doors down. They entered the shop, full of artwork. The artwork aerially illustrated local landscapes and vegetation from high above. It was interesting, but Maria was unsure. Then, she looked closer at the images in one of the pieces. She pointed to it and exclaimed, "This is it! This is the perfect gift!"

Maria and her grandmother looked more carefully at the artwork. They knew this place well, even if not from the aerial viewpoint. It was the farm where they lived, showing all that grandfather loved.

Sequence

FOCUS The **sequence** in which events occur in a story is indicated by time words and order words.

PRACTICE Read each sentence. Write the time and order word or phrase in each sentence on the line.

1. The children played kickball all summer in the backyard.

2. First, sign up for the reading program at your local library.

3. Next, read lots of books and record the books and time you read.

4. Then, turn in your completed list of books to the library.

5. You will receive a wonderful reading reward at last.

6. My brother started kindergarten this past fall.

7. Will you meet me after school to go to the library?

8. I finally found the book I wanted to read.

APPLY Read each paragraph below. Then, rewrite the events in the paragraph in the correct sequence.

9. I love to write stories, especially fairy tales. Next, I start drafting to tell the story. At long last, I am ready to share my story with others. Then, I go back and reread my draft, making notes to revise. First, I think up the characters and the problem. After I revise and edit my story, I draw some pictures to illustrate it. Once my draft is complete, I set it aside.

10. On Fridays, we watch a movie. My family does different activities each night of the week. On Tuesdays, we go to a park. On Thursdays, we play a game. On Mondays, we go to the library. Finally, over the weekends, we visit family. On Wednesdays, we listen to music together.

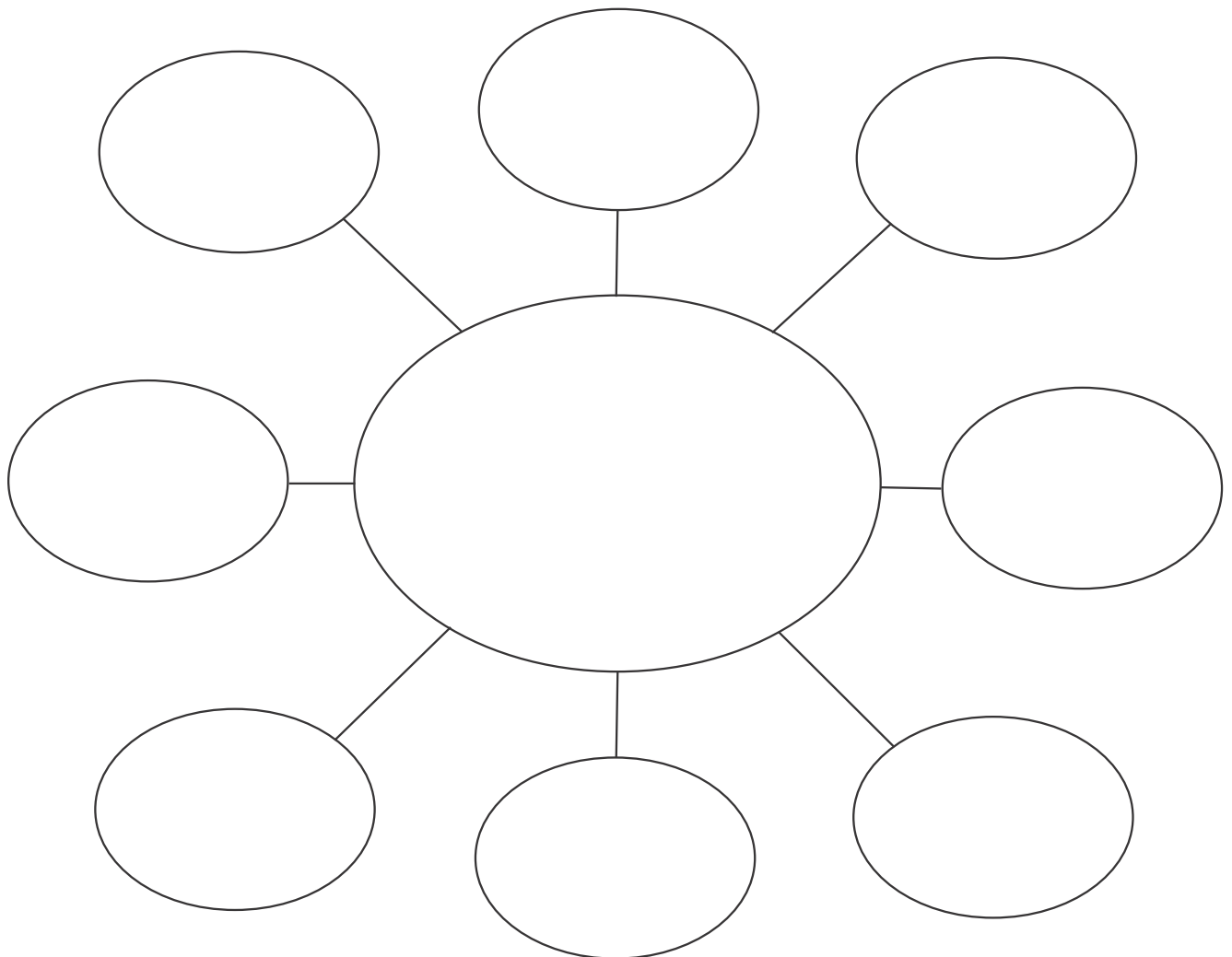
Informational Writing

Think

Audience: Who will read your informational writing?

Purpose: What is your reason for writing?

PREWRITING Write the Science Category you have chosen in the center space. Generate Topic Ideas related to the category, and write them in the surrounding areas.



PREWRITING Use the lines below to make sure you have enough information for three paragraphs. Write the main detail that will be the topic for the paragraph. Then list additional facts, examples, or explanations related to the main detail.

Paragraph 1 Important Detail: _____

Related details: _____

Paragraph 2 Important Detail: _____

Related details: _____

Paragraph 3 Important Detail: _____

Related details: _____

Latin Root *terra* and Greek Roots *geo* and *photo*

FOCUS • Understanding and identifying Greek and Latin roots and their meanings can help you spell many new words. Here are some roots in the spelling words and their meanings:

Latin root *terra* = “land” or “Earth”; **Greek root *geo*** = “Earth”; **Greek root *photo*** = “light”

PRACTICE Fill in the root and write the resulting spelling word on the line. Use each spelling word only once.

Word List

- | | |
|------------------|--------------------|
| 1. geode | 11. photographic |
| 2. geography | 12. photography |
| 3. geological | 13. photosynthesis |
| 4. geologist | 14. telephoto |
| 5. geometry | 15. terrace |
| 6. geothermal | 16. terrain |
| 7. Mediterranean | 17. terrarium |
| 8. photocopy | 18. terrier |
| 9. photogenic | 19. territorial |
| 10. photographer | 20. territory |

Challenge Words:

1. extraterrestrial
2. photon
3. subterranean

- | | |
|---------------------------------|-----------------------------|
| 1. _____ + ier = _____ | 9. _____ + itory = _____ |
| 2. _____ + grapher = _____ | 10. _____ + de = _____ |
| 3. _____ + thermal = _____ | 11. _____ + graphic = _____ |
| 4. Medi + _____ + anean = _____ | 12. _____ + graphy = _____ |
| 5. _____ + itorial = _____ | 13. _____ + ain = _____ |
| 6. _____ + graphy = _____ | 14. _____ + metry = _____ |
| 7. _____ + logist = _____ | 15. _____ + copy = _____ |
| 8. _____ + genic = _____ | 16. _____ + arium = _____ |

17. _____ + logical = _____

18. _____ + ace = _____

19. _____ + synthesis = _____

20. tele + _____ = _____

APPLY Write the spelling word that is represented by the following root meaning combinations.

21. “outside” + “Earth” = _____

22. “below” + “Earth” = _____

23. “light” + “writer” = _____

24. “distance” + “light” = _____

25. “Earth” + “heat” = _____

Choose the word that does not share the same main root as the other two and write it on the line.

26. geography, photogenic, geological _____

27. telephoto, territory, extraterrestrial _____

28. terrier, Mediterranean, photocopy _____

29. geography, geode, photon _____

30. geometry, territorial, territory _____

31. subterranean, geological, terrier _____

32. telephoto, terrier, photographer _____

Conjunctions

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A **conjunction** is a word that connects words or groups of words.

- A **coordinating conjunction** joins words or groups of words that are equally important in a sentence. The coordinating conjunctions are *and*, *but*, and *or*.

My older brother **and** sister live in Atlanta.

Lily will need to babysit tomorrow, **or** we cannot go to the movie.

- **Correlative conjunctions** work in pairs to join words and groups of words. The correlative conjunctions are *either/or* and *neither/nor*.

Neither the birds **nor** the squirrels can get into the shed now.

- A **subordinating conjunction** joins two clauses when one clause is dependent on the other. Examples of subordinating conjunctions are *before*, *if*, *after*, *so*, *when*, and *because*.

After Aunt Gina gets here, we will put out the food.

PRACTICE Circle the conjunction(s) in each sentence. Then write **C** on the line if it is a coordinating or correlative conjunction. Write **S** on the line if it is a subordinating conjunction.

1. We all ran inside before the rain poured down. _____
2. Aaron likes to go biking and jogging on the weekends. _____
3. The train left the station on time, but it arrived at the next stop two hours late. _____
4. Paul wanted to purchase either a baseball or a softball. _____
5. We returned the radio to the store because the speakers do not work. _____
6. Mr. Louis or Ms. Unser will find the book for you. _____
7. How will Olivia get here if the car is in the shop? _____
8. When you see the library on the corner, turn left. _____

APPLY Use coordinating and subordinating conjunctions to complete each sentence below.

9. The Suarezes planned to take Nitesh's boat and go sailing, _____ there was hardly any wind.
10. You need to decide whether we will have pizza, _____ you will make your famous meatloaf.
11. Dana's soccer team will either score on this kick, _____ the game will be over.
12. A door slammed somewhere in the house, _____ I heard my sister yelling.
13. Mountain climbing is a thrilling activity, _____ you need professional training before you can use Tim's gear.
14. Dante washed his face, brushed his teeth, _____ combed his hair before leaving the house.
15. _____ the game we will try to go to the store.
16. We hope to take our vacation in September _____ the weather gets too cold.
17. _____ the neighbors were being loud, Jimmy tried to go to sleep anyway.
18. Kathy had always wanted to go to a concert, _____ she finally got her chance.
19. _____ the sun sets, we cannot start the fireworks display.
20. I have not seen any deer in our yard _____ my dog, Chipper, chased them away.