

Name _____

Panthers & Pumas Science Final Exam 2020-2021

Practicing Skill 3

HOW TO Choose the Right Tool

Read the paragraph below. Then use the information in the paragraph to answer the questions on page 6.

Gardeners' Gear

At the Happy Valley Elementary School, two classes are planning to work together to plant a spring garden. First they must measure an area that is 5 meters by 5 meters. Then they need to clear the area and get it ready for planting. The students decide they want to plant tulip bulbs, daffodil bulbs, and also seeds for other types of flowers. They know that the tulip bulbs will have to be planted about 15 centimeters deep. The smaller daffodil bulbs can be planted about 13 centimeters deep. The seeds for the other flowers will be planted about 5 or 6 centimeters deep. A group of parents decides to put up a fence that is 1 meter tall around the garden.

The students made a list of the materials they think they will need to create their garden.

*Tulip and daffodil bulbs
Seeds for other flowers
Handheld rakes
Shovels
Spades
Gloves
Wood for fence
Measuring tools*

Name _____

Use the information on page 5 to answer the following questions. Circle the correct answer.

1. Which tool should the students use to measure the space for their garden?
 - A. Ruler
 - B. Meterstick
 - C. Tape measure

2. Which tool should the students use to measure how deep to plant the tulip and daffodil bulbs?
 - A. Ruler
 - B. Meterstick
 - C. Tape measure

3. Which tool should the students use to measure how deep to plant the seeds?
 - A. Ruler
 - B. Meterstick
 - C. Tape measure

4. Which tool should the students use to see if their fence is the correct height?
 - A. Ruler
 - B. Meterstick
 - C. Tape measure

Practicing Skill 4

HOW TO Make a Hypothesis

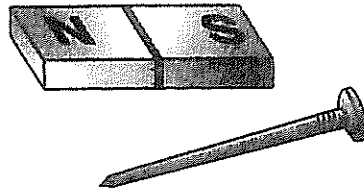
Read the paragraph that follows. Then use the information in the paragraph to answer the questions on page 8.

Thinking About Magnets

In school, Russell was learning about magnets. In his science class, he did an investigation using a bar magnet and an iron nail. He rubbed the iron nail on the bar magnet. Then he held the nail next to some other metal objects. The nail attracted the metal objects just like a magnet. Russell remembered learning that magnets attract iron and some other metals. He knew that some magnets are natural, and some are made by people. Russell had some questions about magnets:

What would happen if I rubbed other metal objects on a bar magnet?

Would other metal objects be able to attract metal objects like the nail did?



Name _____

Use the information on page 7 to answer the following questions.

1. What did Russell observe in his investigation?

2. What did Russell already know about magnets?

3. What questions did Russell have about magnets?

4. Write a hypothesis that could answer Russell's questions about magnets.

5. How would you test this hypothesis?

Practicing Skill 13

HOW TO Tell Fact from Opinion

Read the letter Carmen wrote to her friend about snorkeling in the Great Barrier Reef. Look for facts and opinions as you read. Underline two facts and circle two opinions.

July 25, 2003

Dear Cara,

We are having so much fun here in Australia. Yesterday we rode in a big boat out to the Great Barrier Reef. The reef is off the coast of Australia and is about 1,250 miles long! We went snorkeling in one part of the reef. I wore a mask with a snorkel attached and a life jacket. The snorkel helped me breathe while I swam. The mask allowed me to see everything underwater without getting water in my eyes. The life jacket helped me float. Snorkeling felt like being inside an aquarium. I could see many animals up close. I saw many kinds of colorful fish. I also saw white, yellow, green, and pink corals in many different shapes. I think corals are really pretty. When I was snorkeling, I saw a big reef shark. It swam by me, but it didn't do anything. Sharks are my favorite fish. After a few hours we had to get back into the boat and go back to land. I hated to leave the reef.

See you when we get back,

Carmen

Name _____

Decide which sentences below are facts and which are opinions. Write Fact in front of the sentences that are facts. Write Opinion in front of the sentences that are opinions.

1. _____ Living coral reefs cover 360,000 square miles.
2. _____ Each coral is smaller than a thumbnail.
3. _____ I believe that coral reefs are amazing places.
4. _____ Corals are in the same family as jellyfish and sea anemones.
5. _____ There are at least 1,000 different species of corals.
6. _____ I think that scuba divers should be able to dive anywhere they want.
7. _____ More than three billion people live in coastal areas.
8. _____ Scientists have used compounds from organisms that live in coral reefs to make medicines.
9. _____ People should not build in areas where coral reefs are found.
10. _____ I think that coral reefs are not really in danger.

Practicing Skill 14

HOW TO Find the Main Idea

Read the paragraphs below and on page 28 and answer the questions below each paragraph. Write the answer that tells the main idea of each paragraph.

Decomposers are living things that get their food from dead organisms. Decomposers break down dead plants and animals into simpler substances. Chemicals from dead plants and animals are returned to the soil. Bacteria and fungi, such as mushrooms, are examples of decomposers.

1. The main idea of this paragraph is: _____
- A. Bacteria and fungi are decomposers.
 - B. Decomposers are living things that get their food from dead plants and animals.
 - C. Mushrooms are a type of fungi.
 - D. Chemicals from dead plants and animals are returned to the soil.

Bacteria are single-celled living things that are found everywhere. They live in the air, in water, and on land. They even live in the bodies of humans. Some bacteria kill other harmful bacteria in your body. Some bacteria turn milk into cheese. Other bacteria may cause disease. Some bacteria decompose dead animals and plants.

2. The main idea of this paragraph is: _____
- A. Bacteria are small.
 - B. Some bacteria kill harmful bacteria in your body.
 - C. Some diseases are caused by bacteria.
 - D. Bacteria are single-celled living things that are everywhere.

Read the paragraphs and answer the questions below each paragraph. Write the answer that tells the main idea of each paragraph.

A fungus is also a very tiny living thing found in many places on Earth. Fungi (more than one fungus) are decomposers and can be helpful or harmful, just like bacteria. Mushrooms aren't plants; they are fungi. They get their food from other living things that are decomposing. Fungi can break down stumps of trees and other wood.

3. The paragraph is mostly about _____ .

- A. fungi
- B. decomposers
- C. mushrooms
- D. bacteria

Actinomycetes are decomposers. These small organisms form long fibers that spread through soil. These fibers can break down bark, leaves, and even paper. The smell of dirt is caused by actinomycetes. Like bacteria, some actinomycetes are harmless to humans and some cause disease.

4. The sentence that best tells the main idea of this paragraph is: _____

- A. The smell of dirt is caused by actinomycetes.
- B. These small organisms form long fibers that spread through the soil.
- C. Actinomycetes are decomposers.
- D. These fibers can break down bark, leaves, and even paper.