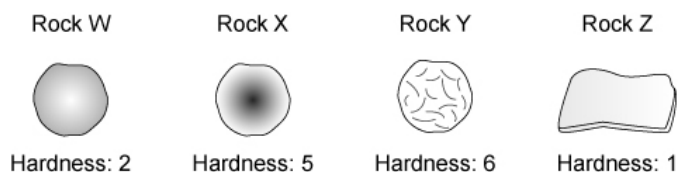


Test Name: 2019-20 RCK12 Grade 3 Unit 4 Pre Assessment

Test Id: 510039

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The picture below shows the physical properties of four rocks in Tim's rock collection.



Tim adds a new rock to his rock collection. His new rock is round, black, bumpy, and has a hardness of 5. Which of the rocks in his collection is **most** like this new rock?

1.
 - A. Rock W
 - B. Rock X
 - C. Rock Y
 - D. Rock Z

Beth is comparing Rock N and Rock O. She uses the scratch test to explore the properties of the rocks.



Why does Rock O leave a scratch on Rock N?

2.
 - A. Rock N is softer than Rock O.
 - B. Rock N is harder than Rock O.
 - C. Rock N is smooth, and Rock O is bumpy.
 - D. Rock N is bumpy, and Rock O is smooth.

Which color is soil that contains a lot of matter from living organisms?

3.

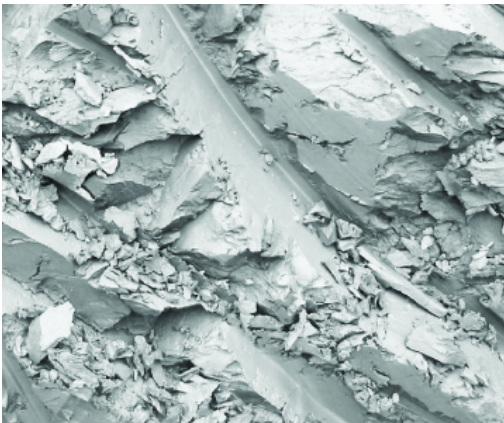
- A. tan
- B. black
- C. red
- D. yellow

Which of the following **best** describes loam?

4.

- A. It does not hold water well.
- B. It does not have any nutrients.
- C. It has the most organic matter.
- D. It has a mixture of particle sizes.

Look at the picture of soil.



Source: Sirm Sepp CC BY SA 3.0

What type of soil is this?

5.

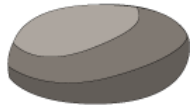
- A. clay
- B. sand
- C. loam
- D. topsoil

The pictures show two rocks. Rock X is found beside a fast-moving river. Rock Y is pulled from the bottom of the river.

rock X



rock Y



Pick **two** sentences that are true of the river.

6.

- A. The river can create new rocks.
- B. The river can join rocks together.
- C. The river can make rocks smaller.
- D. The river can add pieces to rocks.
- E. The river can make rocks smooth.

Why would scientists do a streak test on a rock?

7.

- A. to identify its hardness
- B. to identify its minerals
- C. to determine its weight
- D. to determine its texture

Which of the following is NOT used to identify a rock?

8.

- A. color
- B. weight
- C. shape
- D. streak

While on a hike, Keiko finds two rocks and makes a chart comparing their physical attributes.

Rock 1	Rock 2
white with gray streaks	black and tan
rough	smooth
nonmetallic	nonmetallic
semitransparent	nontransparent

Which question Keiko could ask to add another physical attribute of the rocks to her chart?

9.

- A. Where were the rocks found?
- B. Why are they multiple colors?
- C. How many rocks are like them?
- D. Can they be scratched by a nail?

Sophia visits her grandmother's house on the same beach every year. She notices the sand dunes on the beach are a different shape each time she visits. Which **best** describes why the shape of the sand dunes would change?

10.

- A. The sand dunes change shape from rain.
- B. The sand dunes change shape from snow.
- C. The sand dunes change shape from the wind coming off the water.
- D. The sand dunes change shape from shells and rocks piling on them.

