Light and Sight: Summative Assessment

Student Name: _____

INSTRUCTIONS

Please answer each question carefully.

1. Light _____.

   - ○ **A.** takes up space
   - ○ **B.** is made up of matter
   - ○ **C.** is a form of energy
   - ○ **D.** has a magnetic force

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2. Which type of energy does the sun provide Earth?

- ○ **A.** light
- ○ **B.** gravity
- ○ **C.** chemical
- ○ **D.** mechanical

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3. Which of the following is a source of light?

- ○ **A.** the moon
- ○ **B.** our eyes
- ○ **C.** fire
- ○ **D.** a mirror

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4. What property of light helps you see yourself in a mirror?

- ○ **A.** refraction
- ○ **B.** reflection
- ○ **C.** absorption
- ○ **D.** relativity

5. Which statement best explains why you can see yourself when you look at a mirror?

- ○ **A.** Light is refracted as it passes through the mirror.
- ○ **B.** Light is reflected, bouncing off the mirror.
- ○ **C.** Light is refracted, bouncing off the mirror.
- ○ **D.** Light is reflected as it passes through the mirror.

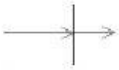
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6. The arrows in each answer choice represent light rays. Which drawing shows how light is reflected by a mirror?

○ **A.** 

○ **B.** 

○ **C.** 

○ **D.** 

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7. What type of surface scatters light unevenly?

- ○ **A.** shiny
- ○ **B.** rough
- ○ **C.** smooth
- ○ **D.** transparent

8. What word is used to describe light as it strikes a smooth, shiny surface and bounces off?

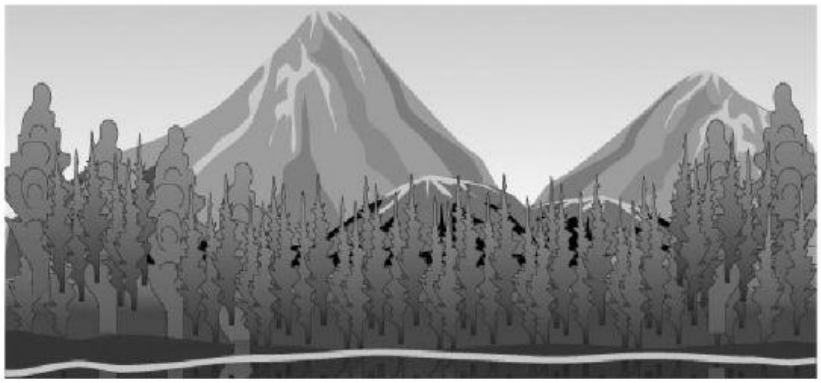
- ○ **A.** shadow
- ○ **B.** energy
- ○ **C.** reflection
- ○ **D.** wave length

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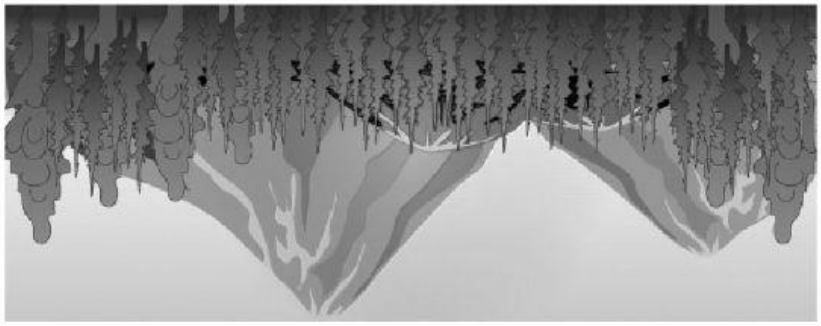
9. What happens to light when it hits a rough surface?

- ○ **A.** scattering
- ○ **B.** reflection
- ○ **C.** absorption
- ○ **D.** refraction

10. Rebecca visited a lake surrounded by mountains. She observed the image of the mountains on the surface of the lake's water.



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Rebecca built a diorama to model what she saw. She used a postcard of a mountain scene to represent the mountains and a small mirror to represent the lake. Which is the best explanation of why her model represents what she saw?

- ○ **A.** The mirror refracts light onto the image of the mountain on the postcard
- ○ **B.** The mirror reflects light onto the image of the mountain on the postcard.
- ○ **C.** The image of the mountain on the postcard is refracted by the mirror.
- ○ **D.** The image of the mountain on the postcard is reflected by the mirror.

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11. Which set of objects below would **all** reflect light well?

- ○ **A.** aluminum foil, brick wall, mirror
- ○ **B.** metal spoon, tree trunk, aluminum foil
- ○ **C.** mirror, metal spoon, brick wall
- ○ **D.** metal spoon, mirror, aluminum foil

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