

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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1. Which demonstrates that light travels in straight lines?

- A. the forming of shadows
  - B. the speed of light
  - C. the rainbow effect
  - D. the brightness of the Sun
- 

2. Mrs. Huang hears the horn of a train. At first the sound is not high in pitch. Next the sound gets higher in pitch. Then the sound gets lower in pitch. Which train movement would explain the changes in pitch?

- A. The train is stopped.
  - B. The train comes toward Mrs. Huang and then stops.
  - C. The train is moving away from Mrs. Huang.
  - D. The train comes toward Mrs. Huang, passes her, and then moves away.
- 

3.

A magnifying glass is an example of what type of lens?

- A. convex
  - B. concave
  - C. square
  - D. thick
- 

4. **By passing white light through a prism, you can tell —**

- A. that white light is actually a mixture of different colors.
- B. the mass of the prism.
- C. the original source of the light.
- D. that blue light is brighter than white light.

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5. Jonas needs to split a log. He has a sledge hammer. What other tool should he also use to split the log?

- A. a lever
- B. a pulley
- C. a wedge
- D. a fulcrum

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6. Billy was pulling his wagon on the sidewalk. What should he do to keep the wagon moving?

- A. Walk behind the wagon.
  - B. Apply a force to the wagon.
  - C. Put a weight in the wagon.
  - D. Walk on the side of the wagon.
- 

7.

A rapid vibration will

- A. cause a high pitched sound.
  - B. cause a low pitched sound.
  - C. not make a sound of any kind.
  - D. be so quiet you won't be able to hear it.
- 

8. Use the picture below to answer this question.



The balance is a simple machine called

- A. a lever.
  - B. a pulley.
  - C. a wheel and axle.
  - D. an inclined plane.
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9. Sound waves are produced by

- A. gravity.
  - B. heat.
  - C. vibration.
  - D. light.
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10. When light hits a dark object, most of the light is

- A. absorbed.
- B. reflected.
- C. diffused.
- D. refracted.

**Answer Key**

1. A) the forming of shadows
2. D) The train comes toward Mrs. Huang, passes her, and then moves away.
3. A) convex
4. A) that white light is actually a mixture of different colors.
5. C) a wedge
6. B) Apply a force to the wagon.
7. A) cause a high pitched sound.
8. A) a lever.
9. C) vibration.
10. A) absorbed.