

**Drink Pouch Holder**

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

**3<sup>rd</sup> Grade- Design Task Assessment**

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

Directions: For each of the questions below, choose the BEST answer.

1) Light is a form of:

- A. energy
- B. length
- C. volume
- D. weight

2) Which of the following are units of measurement for **temperature**?

- A. Meters per second (m/s)
- B. Kilograms (kg)
- C. Miles per hour (mph)
- D. Degrees Fahrenheit (°F)

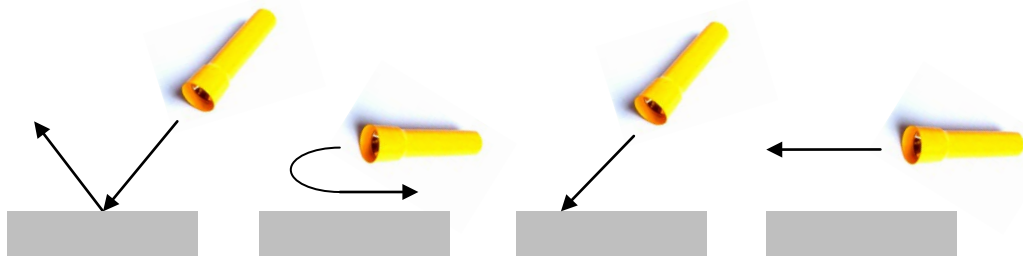
3) Light waves travel in a \_\_\_\_\_ path.

- A. curved
- B. straight
- C. circular
- D. square

4) As an object **absorbs** light energy, its temperature will \_\_\_\_\_.

- A. increase
- B. stay the same
- C. decrease
- D. cannot tell

5) Which shows light from a flashlight being completely **absorbed**?



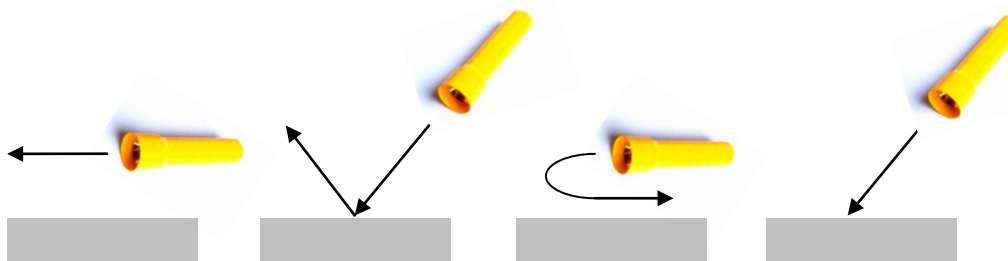
A.

B.

C.

D.

6) Which shows light from a flashlight being completely **reflected**?



A.

B.

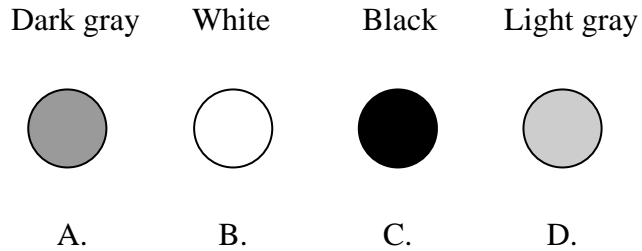
C.

D.

7) A wooden box is sitting in the sunlight. Which color should it be painted to keep it **coolest**?

- A. Red
- B. Black
- C. Purple
- D. White

8) Four circles made of the same kind of material are shown below. Which will **absorb** the **most** light energy from the Sun?



9) The most light will **reflect** off of:

- A. blue paper.
- B. black paper.
- C. white paper.
- D. green paper.

Use the following information to answer questions 10 – 12.

Fun Beach Park hired the company Umbrellas Pros to design and build large umbrellas that will provide shade for visitors at the beach. Kate, an engineer at Umbrella Pros, is a member of the design team that will work on the umbrellas.



10) Who is the client?

- A. Fun Beach Park.
- B. Umbrella Pros.
- C. Visitors at the beach.
- D. Kate the engineer.

11) Which of the following best describes the end user?

- A. Umbrella Pros.
- B. Fun Beach Park.
- C. Visitors at the beach.
- D. Kate the engineer.

12) Engineers at Umbrella Pros have designed and built prototype umbrellas. Which would be the best thing for the engineers to do next?

- A. Identify who needs the umbrella.
- B. Sell the prototype umbrella.
- C. Test the umbrellas in the sunlight.
- D. Identify who the client is.