

Date: _____

Name: _____

Class: _____

1 Which of the following is an artificial light source?

- A 
- B 
- C 
- D 

2 How does a light bulb work?

- A A wick inside the bulb is burned
- B An electric current is passed through a filament
- C White light is passed through a prism
- D Ambient light is reflected by a small mirror

3  What can you infer about the environment the anglerfish lives in?

- A It must be extremely bright
- B It must be extremely dark
- C It must be filled with other fish
- D It must be empty of other fish

4 What device produces light by running an electric current through a gas?

- A An incandescent light bulb
- B A flashlight
- C A neon sign
- D A prism

5 What could you use to split white light into its component colors?

- A A flashlight
- B A capacitor
- C A light bulb
- D A prism

6 Why does refraction occur?

- A Light travels through different materials at different speeds
- B Different colors of light travel at different speeds
- C Different materials physically twist light around
- D Light from different sources travels at different rates

7 Only a minute portion of the electromagnetic spectrum can be seen with the human eye. In this context, what does "minute" mean?

- A Colorful
- B Large
- C 60 seconds
- D Small

8 When you look at your teacher's face, how can you see it?

- A Light reflects off of her face
- B Her face emanates light
- C Light refracts through her face
- D Her face emits electromagnetic radiation

9 Light can behave as both a _____ and a _____.

- A Ray; beam
- B Wave; particle
- C Natural source; unnatural source
- D Refraction; reflection

10 Why does the light we see from stars take thousands of years to reach us?

- A Because the light is slowed down by gases in outer space
- B Because the light is reflected off of other stars
- C Because the stars are very far away
- D Because light travels very slowly

