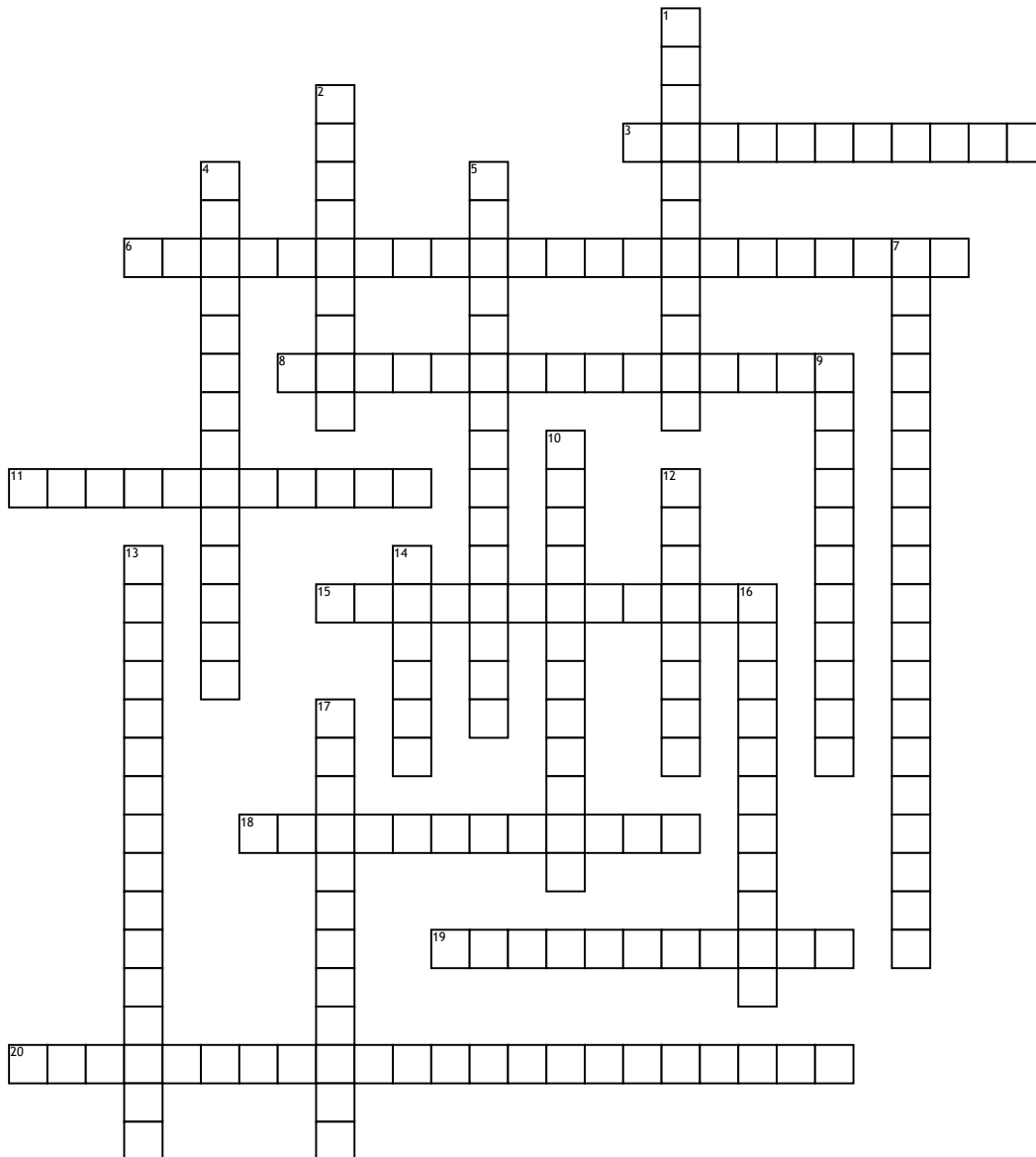


Name: _____

Date: _____

Ch. 16- Light



Across

3. The bending of light around a barrier

6. $E = P/4(3.14)r^2$

8. Light is represented as a ray that travels in a straight path

11. An object that becomes visible as a result of the light reflecting off it

15. $(-100\% - -1) = \frac{1}{2} - 1 = -\frac{1}{2} \frac{v}{c}$

18. Can be mixed in pairs to form three additional colors

19. The rate at which light strikes the surface

20. $f_{obs} = F(1 + \frac{v}{c})$

Down

1. Suggested that the universe is expanding

2. $I_2 = I_1(\cos^2 \theta)$

4. A pigment that absorbs only one primary color and reflects two from white light

5. Each is a combination of two primary colors

7. Two colors of light that can be combined to make white light

9. Media that transmit light

10. The production of light in a single plane of oscillation

12. An object that emits light

13. A pigment that absorbs two primary colors and reflects one color

14. Media that do not transmit light, but reflect some light

16. Media that transmit light, but do not permit objects to be seen clearly through them

17. The rate at which light energy is emitted from a luminous source