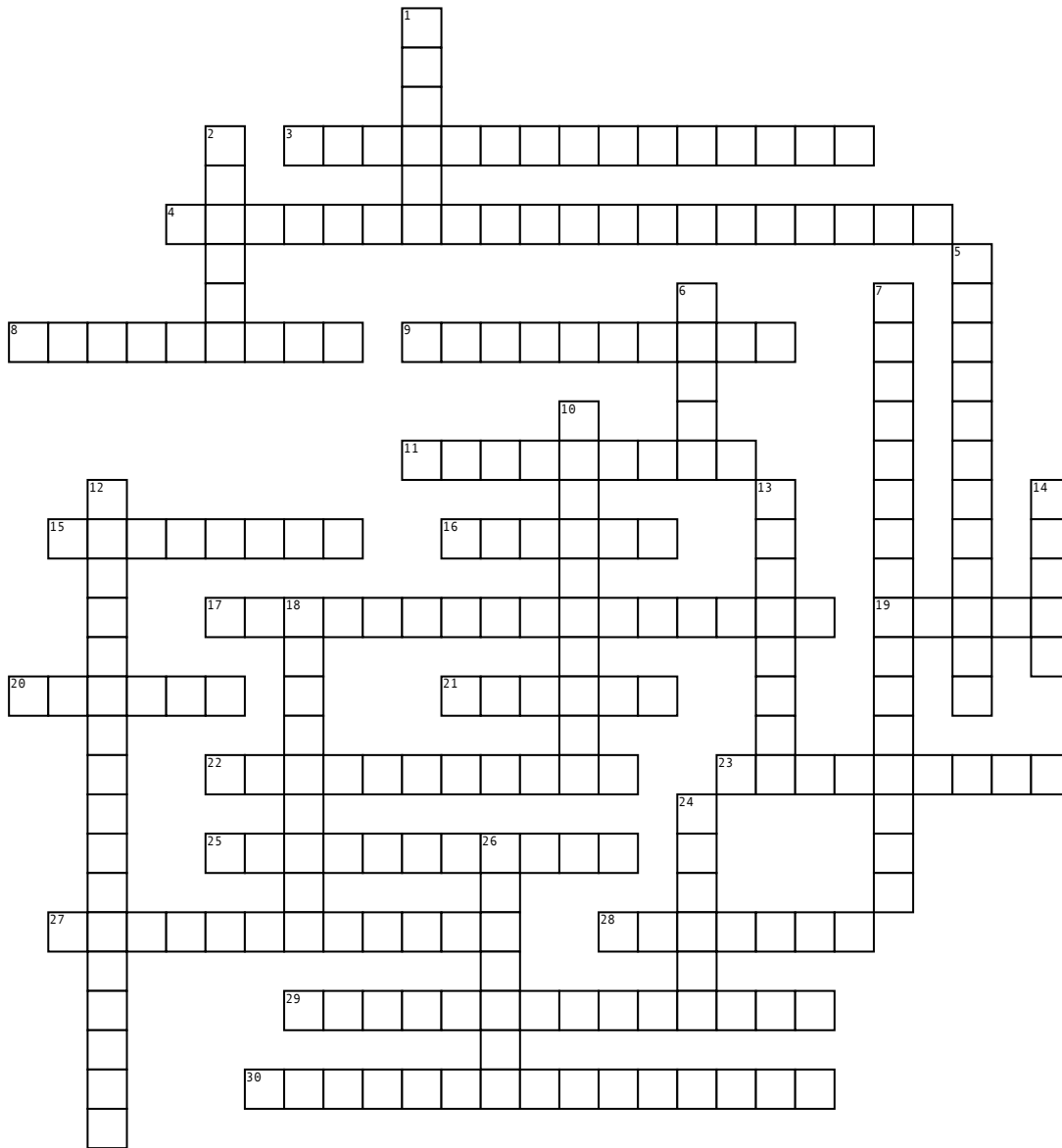


Science Definitions



Across

3. A model that shows light as a straight line or ray that shows the path as it travels including reflection off mirrors or refracting through lenses

4. Old model that light was fast moving tiny particles eventually absorbed by the eye

8. The number or repetitive motions, or oscillations, that occur in a given time

9. When light waves strike an object and bounce off

11. The ray that bounces off a surface

15. the ray that approaches a surface

16. The capacity to apply a force over a distance

17. angle between incident ray and the normal line

19. A type of wave that travels through empty space and transfers energy from one place to another

20. lowest point in a wave

21. the matter waves travel through

22. Light passes through freely

23. A height of a wave crest or the depth of a wave trough, as measured from its rest position

25. Allows some light to pass through but not all

27. The level of water that has no waves

28. occurs when light is blocked in specific areas

29. a property of a material which light passes through (The more dense the slower the light goes through)

30. incident angle must equal the reflected angle

Down

1. imaginary line perpendicular to the surface being struck by light

2. Allows no light to pass through

5. A wave you can see

6. Push or pull on an object

7. Pictures light travelling as a wave

10. The bending/changing direction of a wave as it passes from one material to another

12. angle between the reflected ray and the normal line

13. Range of colors of frequencies of visible light

14. the method frequency is measured in

18. Has the highest energy and frequency and the shortest wavelength portion of the electromagnetic spectrum

24. Illusion formed by refraction of light through air

26. An object (eg. mirror) that curves inward