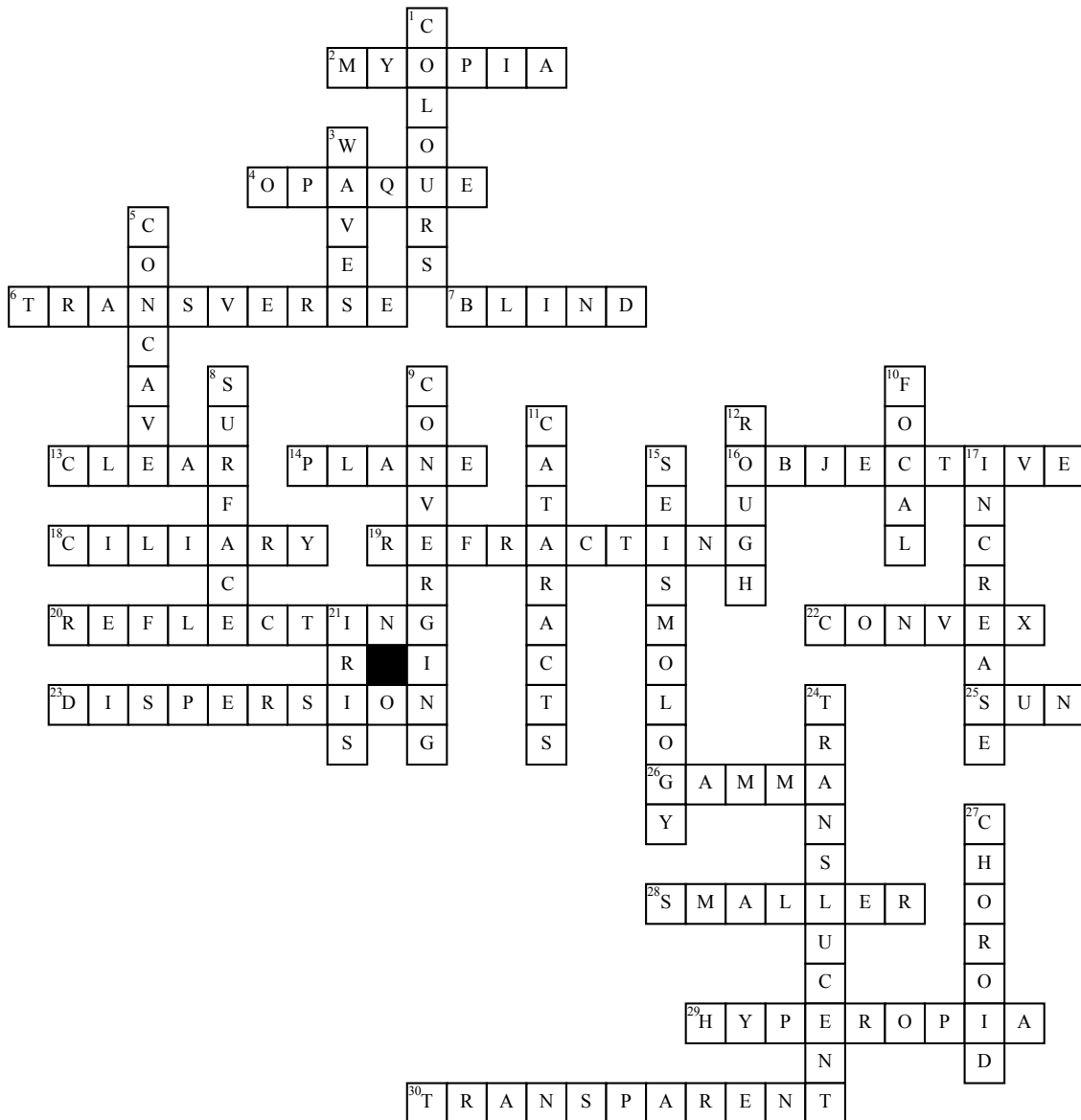


Name: \_\_\_\_\_

# Optics



## Across

2. Another word for nearsightedness
4. Allows no light to get through.
6. Waves where the particles of the medium vibrate with an up and down motion.
7. The \_\_\_\_ spot is where the optic nerve leaves the retina.
13. The aqueous humour is the \_\_\_\_ fluid, that fills the front part of the eyeball.
14. Your image will be upright, but much smaller than what you normally see in this kind of mirror.
16. The \_\_\_\_ lens in a telescope focuses the light to a point in front of the eyepiece.
18. The \_\_\_\_ body is a circular muscle that enables the lens to change shape for focusing.
19. A type of optical telescope that uses a lens as its objective to form an image.
20. Is an optical telescope which uses curved mirrors that reflect light and form an image.

22. A lens that makes light rays come together is called a \_\_\_\_ lens.
  23. When the sunlight passes from the air through rain droplets before reaching your eyes, what is this called?
  25. Where does the energy of the electromagnetic spectrum come from?
  26. Which rays are the highest forms of electromagnetic radiation?
  28. The pupil gets \_\_\_\_ in bright light.
  29. Images are formed behind the retina, not on it, and this causes close-up images to be blurry.
  30. The ability to let light rays in.
- Down**
1. Different \_\_\_\_ of light have different wavelengths.
  3. Light can travel in a straight line just like \_\_\_\_.
  5. These lenses make light spread apart.

8. What kind of wave can you see on the water on a windy day?
9. Concave mirrors are also called \_\_\_\_ mirrors
10. With refraction of light no image is formed when the object is at the \_\_\_\_ point.
11. The most common cause of blindness
12. A \_\_\_\_ and dark-coloured surface will absorb light the most.
15. What is the branch of science called that deals with the study of waves that travel through the Earth?
17. As the wavelength gets shorter, both the frequency and energy \_\_\_\_.
21. The coloured part of the eye.
24. Light can partially get through..
27. The \_\_\_\_ is a layer of blood vessels that nourishes the eye.