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Optics

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|  |  |  | 13C |  L |  E |  A |  R |  | 14P |  L |  A |  N |  E |  |  A |  |  | 15S |  | 16O |  B |  J |  E |  C |  T | 17I |  V |  E |  |
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| **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. |