



ACROSS

- 4 A _____ or singlet lens consists of a single uncomplicated element. Examples include a magnifying glass or a lens in a pair of simple reading glasses.
- 9 A _____ is an instrument designed for the observation of remote objects and the collection of electromagnetic radiation.
- 10 The _____ of view is the angular extent of the observable world that is seen at any given moment.
- 13 Also called near- or short-sightedness, _____ is a refractive defect of the eye with image focus in front of the retina when accommodation is relaxed.
- 14 Ray _____ is a general technique from geometrical optics of modeling the path taken by light by following rays of light as they interact with optical surfaces.
- 15 A _____ image is an image in which the outgoing rays from a point on the object never actually intersect at a point.
- 16 A _____ lens is a lens with a thickness that is negligible compared to the focal length of the lens.

DOWN

- 1 _____ is a branch of physics that describes the behavior and properties of light and the interaction of light with matter.
- 2 A _____ image is a representation of an actual object formed by rays of light passing through the image.
- 3 _____ is the process of enlarging something only in appearance, not in physical size.
- 5 A _____ or refractor telescope is a dioptric telescope that uses a lens as its objective to form an image.
- 6 Also known as hypermetropia, farsightedness or longsightedness, _____ is a defect of vision caused by an imperfection in the eye causing inability to focus on near objects.
- 7 _____ is the eye's diminished ability to focus that occurs with aging.
- 8 A _____ is an optical device with perfect or approximate axial symmetry which transmits and refracts light, concentrating or diverging the beam.
- 10 The _____ length of an optical system is a measure of how strongly it converges or diverges light.
- 11 A _____ is a unit of measurement of the optical power of a lens or curved mirror, which is equal to the reciprocal of the focal length measured in meters.
- 12 A _____ is an idealized narrow beam of light.