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Mirrors and Lenses

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|  |  |  |  |  | 3F |  | 4P |  L |  A |  N |  O |  C |  O |  N |  V |  E |  X |  |  |  |  L |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  O |  |  |  |  |  |  C |  |  |  |  |  |  |  |  |  |  A |  |  |  |  |  |  |  | 5C |
|  | 6O |  B |  J |  E |  C |  T |  D |  I |  S |  T |  A |  N |  C |  E |  |  |  |  |  |  |  N |  |  |  |  |  |  |  |  O |
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|  |  |  |  |  |  L |  |  |  |  |  |  P |  |  |  | 8D |  |  | 9C |  O |  N |  C |  A |  V |  E |  |  |  |  |  V |
|  |  |  |  |  |  L |  |  |  |  |  |  O |  |  |  |  I |  |  |  |  S |  |  O |  |  |  |  |  |  |  |  E |
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|  |  |  | 12C |  O |  N |  V |  E |  X |  |  |  T |  | 13P |  | 14R |  E |  A |  L |  I |  M |  A |  G |  E |  |  |  |  |  |  I |
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| **Across****4.**  lenses are used in imaging, lasers and fiber optics; being flat on one side, and convex on the other**6.** the distance from the actual object being reflected to the point of incidence on the mirror where it's reflected as an image.**9.** including in eyeglasses; curving inward.**10.** Lenses can be used to focus light; convex on both sides**12.** refracting telescope uses two (of these lenses) to magnify images in the sky; surface curved like the exterior of a circle or sphere.**14.** movies presented are an example; light actually converges**15.** formed by diverging lenses or by placing an object inside the focal length of a converging lens**16.** concave on both sides**17.** common element in beam expanding applications; consist of a convex surface and a concave surface where the concave surface.**18.** the distance from the point of incidence on the mirror, the where the image is reflected to**19.** a thin plastic lens placed image directly on the surfaceof the eye to correct visual defect**20.**  microscopes are an example of this; convex lens that is used to produce a magnified image of an object | **Down****1.** A "perfect" lens or mirror would send all light rays through one which would result in the clearest image; the center of interest or activity.**2.** pertaining to or nothing a lens that is plane on one side and concave on the other.**3.**  The light enters the lens and it bends as it goes through the lens to cross at a point in front of the lens.**5.** used in a refracting telescope to focus the image**7.** Fisheye” used in photography for a curve look; is thicker at the center than at the edges.**8.**  a lens that causes a beam of parallel rays to diverge after refraction, as from a virtual image**11.** A lens with one convex and one concave side is convex-concave.**13.** pertaining to eyeglasses that do not contain a curvature for correcting vision, such as sunglasses. |