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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Refraction and Lenses crossword puzzle

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|  |  |  |  |  |  |  |  |  |  |  |  | 1F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  | 3M |  E |  N |  I |  S |  C |  U |  S |  L |  E |  N |  S |  |  |  |  |  |  O |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  N |  |
|  |  |  |  |  |  | 4C |  O |  M |  P |  O |  U |  N |  D |  L |  E |  N |  S |  |  |  |  |  |  |  |  |  |  |  V |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  E |  |  |  |  |  |  |  |  |  |  |  |  | 5D |  |  |  E |  |
|  |  |  |  |  |  |  |  | 6F |  O |  C |  A |  L |  L |  E |  N |  G |  T |  H |  |  |  |  |  |  |  I |  |  |  R |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  L |  |  |  |  |  |  |  |  |  |  |  |  |  V |  |  |  G |  |
|  |  |  |  |  |  |  |  |  |  | 7F |  |  E |  |  |  |  |  |  |  |  |  |  |  |  |  E |  |  |  I |  |
|  |  |  |  | 8N |  I |  M |  R |  U |  D |  L |  E |  N |  S |  |  |  |  | 9R |  |  |  |  |  |  |  R |  |  |  N |  |
|  |  |  |  |  |  |  |  |  |  |  A |  |  S |  |  |  | 10L |  |  E |  |  |  |  |  |  |  G |  |  |  G |  |
|  |  |  |  |  |  |  |  |  |  |  T |  |  |  | 11G |  |  E |  |  F |  |  |  |  |  |  |  I |  |  |  L |  |
|  |  |  |  |  |  |  |  |  |  |  M |  | 12C |  Y |  L |  I |  N |  D |  R |  I | 13C |  A |  L |  L |  E |  N |  S |  |  E |  |
|  |  |  |  |  |  |  |  |  |  |  I |  |  |  |  A |  |  S |  |  A |  |  O |  |  |  |  |  G |  |  |  N |  |
|  | 14L |  E |  N |  T |  I | 15C |  U |  L |  A |  R |  L |  E |  N |  S |  |  E |  | 16C |  O |  N |  C |  A |  V |  E |  L |  E |  N |  S |  |
|  |  |  |  |  |  |  O |  |  |  |  R |  |  |  |  S |  |  S |  |  T |  |  V |  |  |  |  |  E |  |  |  |  |
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|  | 18C |  O |  N |  C |  A |  V |  E |  M |  I |  R |  R |  O |  R |  |  |  |  |  O |  |  X |  |  |  |  |  S |  |  |  |  |
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| **Across****3.** Concave-convex lenses**4.** Consists of several simple lenses**6.** Distance from the center of the lens to the focal point**8.** First lens ever used**12.** Have curvature in only one directon**14.** A shaving mirror is this kind of mirror **16.** Binoculars use these**18.** A shaving mirror is this kind of mirror **19.** This point of a lens is generally noted with a capital F**20.** Used in lenses of sunglasses | **Down****1.** Has its optical surface broken up into narrow rings**2.** Cause light rays to bend to a focal point**5.** Cause light ray from a specific focal point to bend**7.** A mirror with a flat reflective surface**9.** Change in direction of a wave due to a change in its transmission medium**10.** Glasses or other transparent substance with curved sides**11.** What most lenses are made out of**13.** Spoon**15.** Microscopes use this type of lens**17.** Telescopes |