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

Mirrors and Lenses

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| **Across**  **3.** when parallel rays of light hit a smooth surface  **8.** a mirror with a surface that curves inward  **12.** an image of a distant object caused by refraction of light  **13.** an object positions determines whether a convex lens forms a \_\_\_\_\_\_\_\_\_\_ or a virtual image  **14.** a curved piece of glass or other transparent material  **15.** images formed by \_\_\_\_\_\_\_\_\_\_ are always smaller than the object | **Down**  **1.** a flat sheet of glass that has a smooth, silver colored coating on one side  **2.** a concave lens can only produce \_\_\_\_\_\_\_\_\_\_\_\_\_\_  **4.** A measure of how much a ray of light bends when it enters that material  **5.** an upright image that forms where light seems to come from  **6.** when a parallel ray of light hit a bumpy surface  **7.** the point at which rays parallel to the optical axis meet  **9.** a lens thicker in the center than the edges  **10.** an imaginary line that divides a mirror in half  **11.** a lens that is thinner in the center than the edges  **16.** a copy of a image formed by a reflected or refracted rays of light |