Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Science Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

CCU 3

1. **Write the letter of the definition beside each term**.

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| 1. \_\_\_\_ Opaque | 1. Able to produce its own light 2. Clear; allows light to pass through 3. The bouncing back of light 4. Does not let light pass through 5. Allows light to pass through, but scatters the light 6. The bending of light rays as they enter a new material 7. The series of colored bands created when light is separated 8. A two-sided piece of transparent material with at least 1 side curved 9. A lens that is thicker at the edges than the middle; makes things smaller 10. A lens that is thicker in the middle than the edges; makes things larger 11. Invisible light beyond the red end of the spectrum; heats objects 12. A transparent object that separates the colors in light by bending it 13. To gather together in one place 14. The transparent outer layer in front of the eyeball 15. The opening through which light enters the eye |
| 1. \_\_\_\_ Transparent |
| 1. \_\_\_\_ Translucent |
| 1. \_\_\_\_ luminous |
| 1. \_\_\_\_ reflection |
| 1. \_\_\_\_ Lens |
| 1. \_\_\_\_ Concave lens |
| 1. \_\_\_\_ Convex lens |
| 1. \_\_\_\_ Focus |
| 1. \_\_\_\_ Refraction |
| 1. \_\_\_\_ Prism |
| 1. \_\_\_\_ Spectrum |
| 1. \_\_\_\_ Infrared light |
| 1. \_\_\_\_ Retina |
| 1. \_\_\_\_ Pupil |
| 1. \_\_\_\_Iris | 1. The colored part of the eye that regulates the size of the pupil |
| 1. \_\_\_\_Cornea | 1. The light-sensitive lining at the back of the eyeball |
| 1. \_\_\_\_Tapetum | 1. An extra layer of cells behind the retina of many nocturnal animals |

1. **Look at the sentences in part B. If they are true, fill in the missing words as you see them in the book. If they are false, make the sentence correct.**
   1. Light naturally travels \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
   2. Shadows are made when light \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ materials allow you to see light but not objects through them.
   4. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is used to make far away objects seem closer.
   5. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is used to make small objects seem larger.
   6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are used in periscopes to enable their viewers to see around corners.
   7. Nearsighted people need lenses that are\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
   8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ light causes tanning or sunburn.
   9. Insects use their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ eyes to detect movement in any direction.
   10. An animal with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vision can see two images at the same time.
2. **Answer the questions in part C.**
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. They absorb \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and reflect \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
   6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. **Answer each question in part D.**
4. Light travels \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. It will travel \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. The heating element gives off light because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. The chalkboard is too \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.