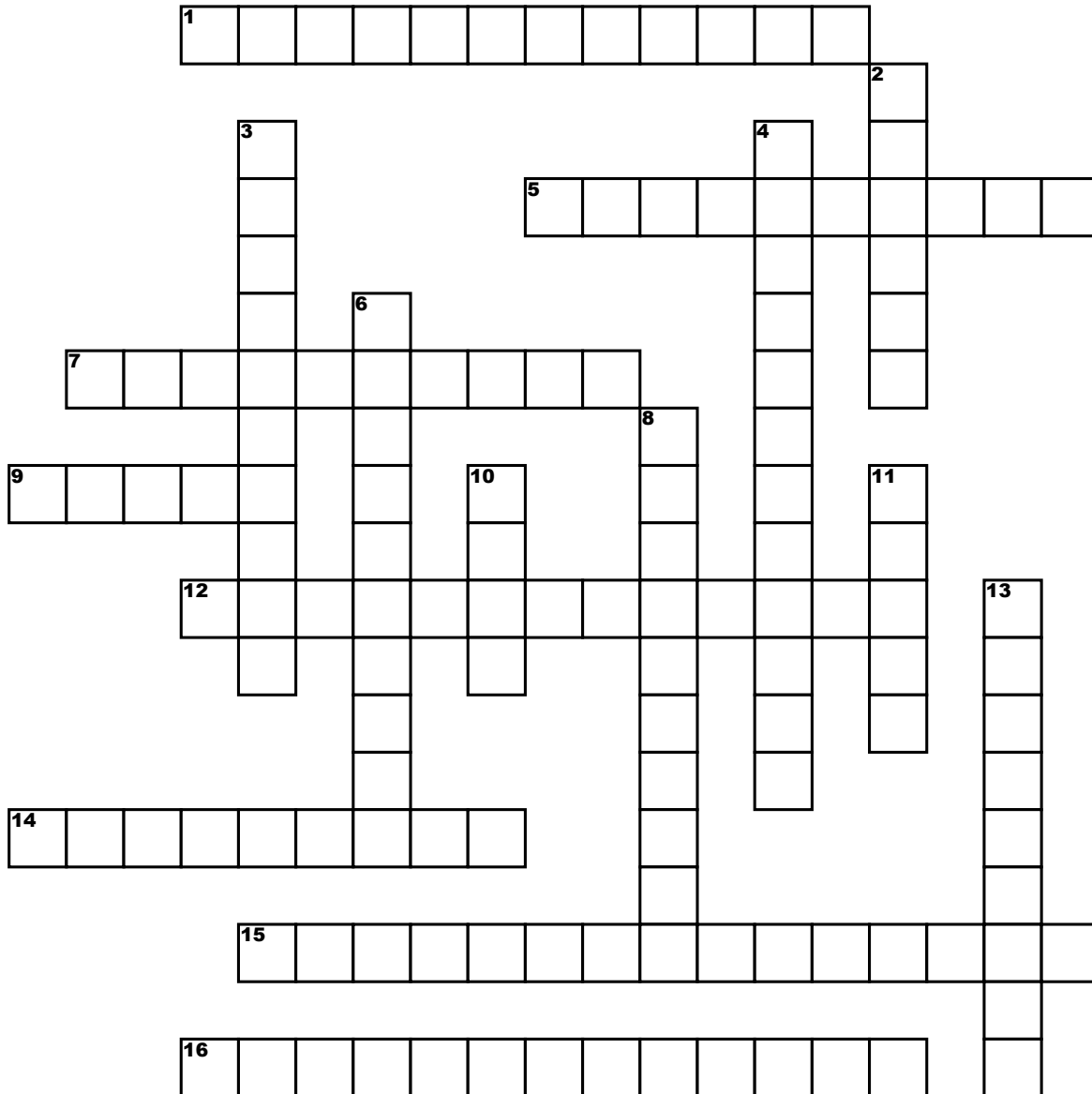


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# chapter 4 and 5



## Across

1. a ray that bounces off the barrier is called a **BLANK**  
 5. **BLANK** has the shortest wavelength and the highest frequency of all radio waves  
 7. the distance from crest to crest or from trough to trough  
 9. **BLANK** is at type of wave that travels through empty space  
 12. a mirror that curves inward  
 14. the number of repetitive motions or oscillations that occur in a given time

15. a range of colours or frequencies of visible light

16. energy such as light that travels by radiation is often called **BLANK**

## Down

2. a **BLANK** material prevents any light from passing through it.  
 3. **BLANK** occurs when a light wave strikes an object and bounces off.  
 4. a mirror that curves outwards  
 6. the bending or changing direction of a wave as it passes from one material to another

8. a type of electromagnetic radiation that has the longest wavelength.

10. a disturbance or movement that transfers energy through matter or space without causing any permanent damage.

11. **BLANK** measures the frequency of a wave

13. the height of a wave crest or depth of a wave trough as measured from its rest position