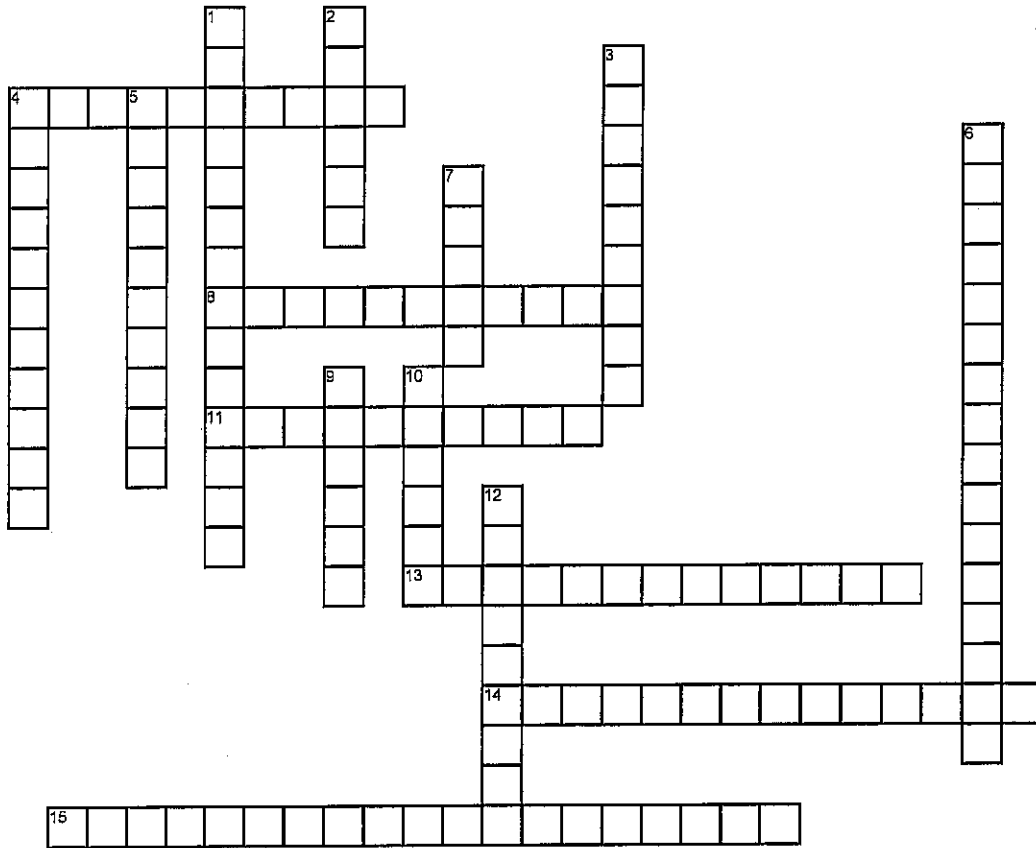


Crossword 02/02/09, Science Spectrum 2008

CR. 15

Name _____ Date _____

Instructions: Complete the puzzle. Use the clues to help you fill the boxes with the correct words.



Vocab.
Review

ACROSS

- the bending of a wavefront as the wavefront passes between two substances in which the speed of the wave differs
- the moving together of particles; the crowded areas
- the distance from any point on a wave to an identical point on the next wave; the distance from consecutive crest to crest or trough to trough
- an observed change in the frequency of a wave when the source or observer is moving
- a wave in which the particles of the medium move perpendicularly to the direction the wave is traveling; example - electromagnetic wave
- a wave that consists of oscillating electric and magnetic fields, which radiate outward at the speed of light; another name for a light wave

DOWN

- a wave that requires a medium through which to travel
- the lowest point of a wave

3. the number of cycles or vibrations per unit of time; also the number of waves produced in a given amount of time; measured in Hertz
4. the spreading apart of particles; the stretched out areas
5. the bouncing back of a ray of light, sound, or heat when the ray hits a surface that it does not go through
6. a wave in which the particles of the medium vibrate parallel to the direction of wave motion; also known as a mechanical wave
7. the highest point of a wave
9. matter through which a wave travels
10. the time required for one complete vibration of a wave; or the time for one complete cycle or one complete wave
12. the maximum distance that the particles of a wave's medium vibrate from their rest position; the distance from standing wave to the crest or trough