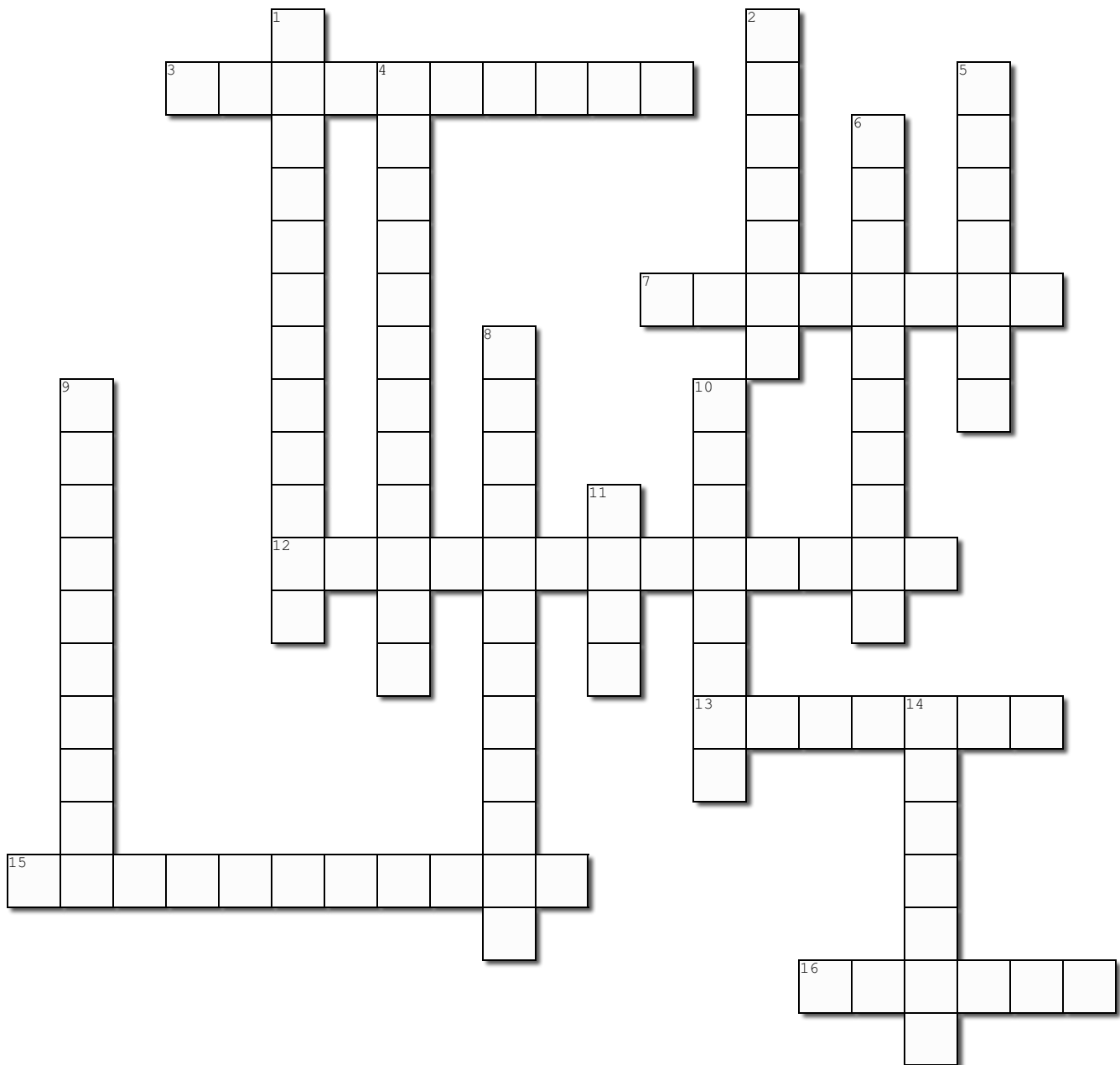


Name: \_\_\_\_\_

# Physical Science Chapter 4 Vocabulary Crossword Puzzle

Fill in the vocabulary word that goes with each definition.



## **Across**

- 3.** used the gold foil experiment to discover the nucleus of the atom
- 7.** atoms of the same element that have different numbers of neutrons and different mass numbers
- 12.** a visual model of the most likely locations for electrons in an atom
- 13.** a region of space around the nucleus where an electron is likely to be found
- 15.** when electrons are in the lowest energy levels possible in an atom
- 16.** a positively charged subatomic particle that is found in the nucleus of an atom

## **Down**

- 1.** equals the number of protons in an atom of an element
- 2.** a neutral subatomic particle that is found in the nucleus of an atom
- 4.** the possible energies that electrons in an atom can have
- 5.** a dense, positively charged mass located at the center of the atom
- 6.** a Greek philosopher that first used the word 'atomos' or atoms
- 8.** when one or more electrons have jumped to higher energy levels
- 9.** the sum of the protons and neutrons in the nucleus of an atom
- 10.** a negatively charged subatomic particle that is found in the space outside the nucleus
- 11.** a Danish physicist who created a model of the atom with energy levels for the electrons to occupy
- 14.** used a cathode ray tube to discover electrons and developed the plum pudding model of the atom