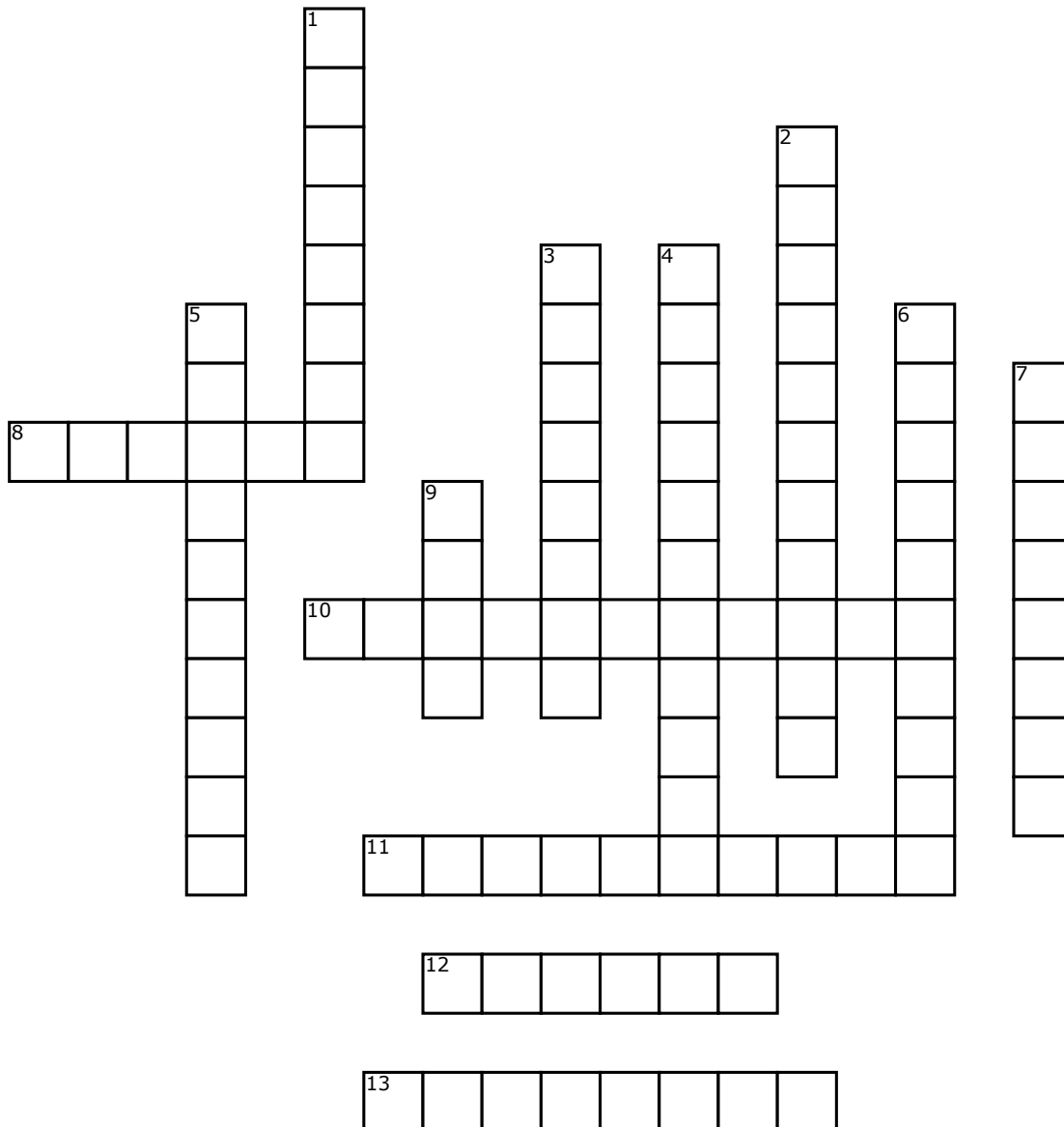


The Atom and Atomic Theory Scientists



Across

- 8.** Different elements differ by atomic weight
- 10.** Electron Cloud Model
- 11.** There is a central positive nucleus surrounded by negative orbiting electrons
- 12.** All atoms in a given element are exactly alike
- 13.** Plum Pudding Model

Down

- 1.** Atom consisted of mostly positively-charged material into which electrons were scattered throughout
- 2.** Electrons are likely to be found in regions called electron clouds
- 3.** There are negatively charged particles in every atom called electrons
- 4.** Electrons do not have a fixed orbit and the path of an electron cannot be predicted
- 5.** Most of the mass of an atom is in the tiny nucleus and the rest of the atom is mostly empty space
- 6.** Gold Foil Experiment
- 7.** Small particles exist inside an atom
- 9.** Electrons rotate about an atom's nucleus in fixed pathways of varying energy levels