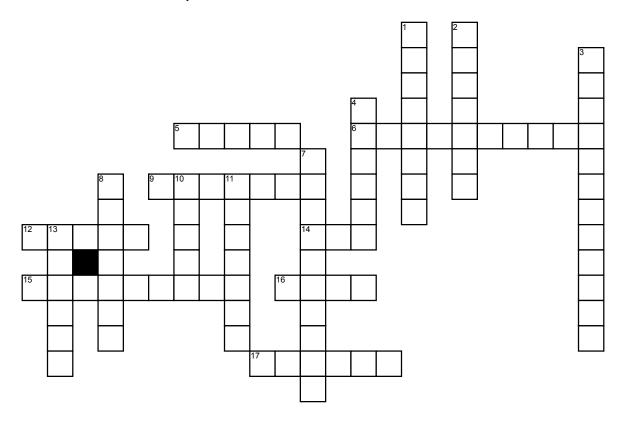
Atoms, Acids and Bases



Across

- **5.** Substances that turn litmus paper red
- **6.** Scientist who fired particles at thin gold foil and proved that the atom is mostly empty space
- **9.** Sub-atomic particle that has mass but no charge
- **12.** Substances that are bitter to
- **14.** When an atom loses or gains electrons, it becomes charged and is called an
- **15.** The name of particles with two or more atoms chemically bonded together

- **16.** The number of an atom is the number of protons plus neutrons in the nucleus
- **17.** The colour of phenolphthalein in a substance with a pH of 13

Down

- **1.** Sub-atomic particle that orbits the nucleus
- **2.** The clump of protons and neutrons in the centre of an atom
- **3.** The name of our current model of the atom
- **4.** Sub-atomic particle that has a positive charge

- 7. Phenolphthalein, Methyl Orange and Bromothymol Blue are all examples of...
- **8.** A substance containing only one type of atom
- **10.** In a neutral atom, there will be numbers of protons and electrons
- **11.** Scientist who suggested the "Plum Pudding" model of the atom
- **13.** The number of an atom is the number of protons in the nucleus