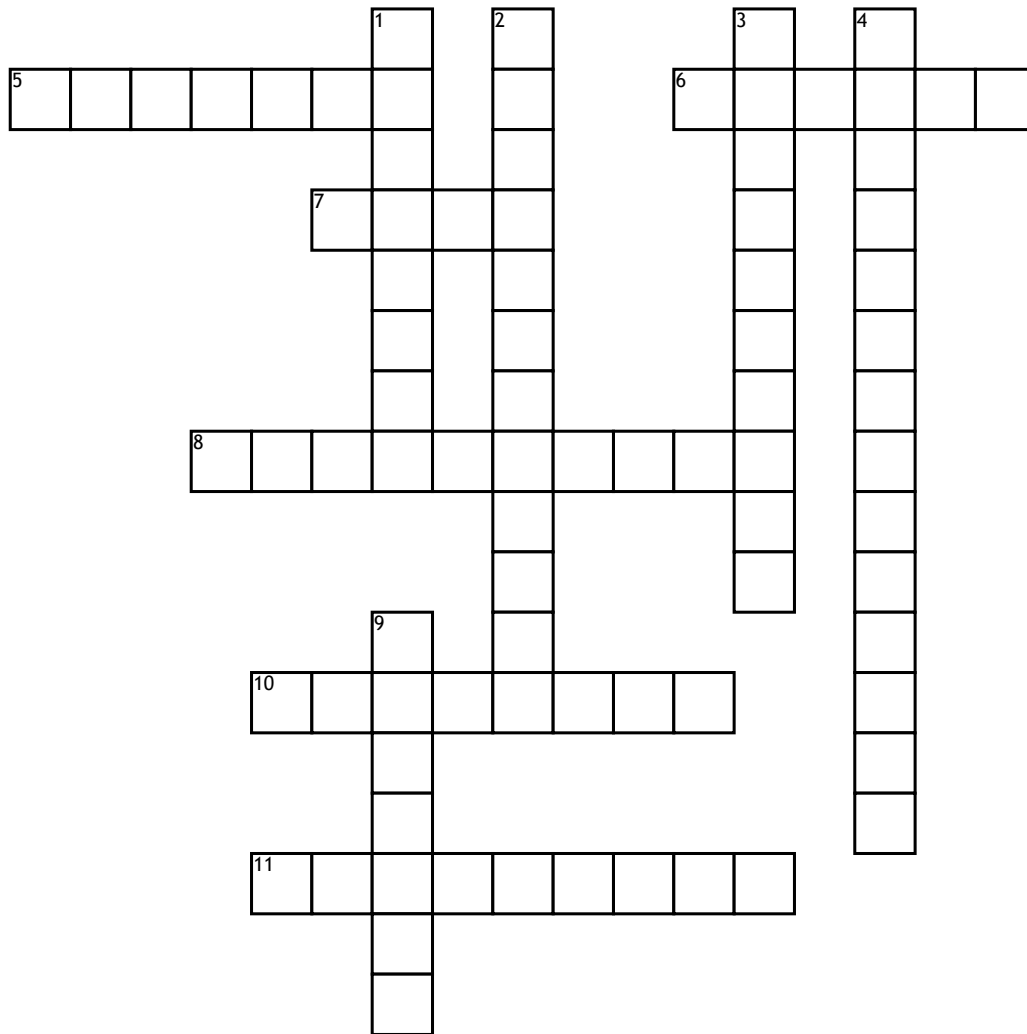


History of the Atomic Theory



Across

5. positively charged subatomic particles
6. formulated hypotheses and theories to explain his observations
7. is the smallest particle of an element that retains its identity in a chemical reaction
8. total number of protons and neutrons in an atom
10. subatomic particles with no charge
11. are negatively charged subatomic particles

Word Bank

Dalton

neutrons

cathode ray

atomic mass unit

electrons

nucleus

Down

1. atoms that have the same number of protons but different numbers of neutrons
2. number of protons in the nucleus of an atom of that element
3. a glowing beam that traveled from the cathode to the anode
4. is defined as one twelfth of the mass of a carbon-12 atom
9. tiny central core of an atom and is composed of protons and neutrons

mass number

protons

atom

isotopes

atomic number