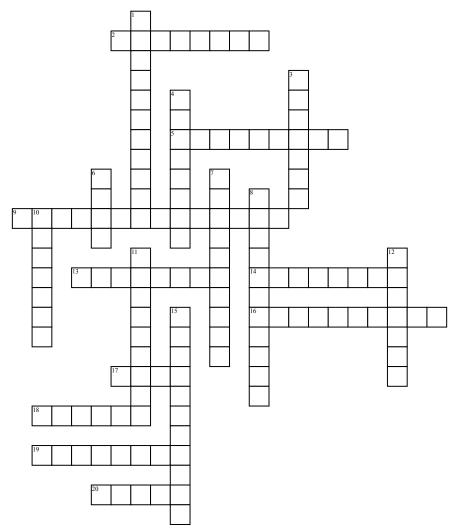
Name:	Date:	Period:

Atomic Theory Scientists



- **2.** Protons balance out the negative charge of electrons by producing a _____ charge. **5.** Said there were 4 elements: water, earth,
- fire, and air.
- **9.** Atoms are indivisible and
- 13. He discovered the charge and mass of an electron by his famous oil drop experiment.
- 14. The Heisenberg Uncertainty Principle states that it is impossible to know simultaneouly the exact position and momentum of a
- 16. He Pounded up material in his pestle and mortar until he reduced them to smaller and smaller particles.
- 17. Said that electrons were in orbit.

- 18. The Greek word for invisible and where the word atom comes from.
- 19. Bohr's model was incorrect and only fit which element.
- **20.** This person defined an element as any substance that cannot be decomposed into a simpler substance.

Down

- 1. Neils Bohr made a quantum model of the atom called
- 3. Ernest Rutherford discovered _____ and developed the idea of a nucleus.
- 4. This scientist took Rutherford's research further and found the neutron.
- 6. Millikan inference that something had to account for the of the atom.

- 7. This scientist created the Heisenberg Uncertainty Principle.
- 8. Joseph John Tomson developed a model which he called the _____model.
- 10. Most of the mass of the atom is in the and electrons orbit it like the planets
- 11. Joseph John Thomsom found that used the cathode ray tube because of its negative charge.
- 12. Chadwick had the idea trhat there could be a particle with mass but no charge which he called the
- 15. This scientist suggested that orbits were not always circular, but in a pattern he called orbitals.

Word Bank

Heisenberg	Mass	Electrons	Schrodinger	Chadwick
Neutron	indestructible	Protons	Plum Pudding	Aristotle
Nucleus	Bohr	Atomos	Particle	Positive
Bohrmodelor	Hvdrogen	Bovle	Millikan	Democritu