Name	_ Magic Square	Atomic Structure and Theory
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Directions: Put the number of the definition from the list below into the square with the appropriate term. Sheck your answers by adding the numbers to see if all the sums of all rows, both across and down add up to same number, the Magic #.

Democritus	Dalton	Thomson	Chadwick	Total
		3.		
				
Rutherford	Proton	Atom	Bohr	
	±		1	•
		<u></u>		
Wave Model	Neutron	Nucleus	Alpha particle	
	-	12	•	
Electron	Model	Energy levels	Electron cloud	
		¥		2
otal				

Magic Number	•
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- 1. 1. Represented by a symbol; all are found on the Periodic Table
- 2. 2. Made a mental model of the atom; Greek philosopher
- 3. 3. Used by Rutherford in his experiment; made of two protons and two neutrons
- 4. 4. The paths in which electrons circle the nucleus according to the Bohr model
- 5. 5. The positive particle in the nucleus of an atom
- 6. 6. The tiny positive core of an atom; contains protons and neutrons
- 7. 7. Formed the atomic theory model of the atom; English schoolteacher
- 8. 8. Discovered the nucleus using his gold foil experiment
- 9. 9. Current explanation of where electrons might be found in the atom
- 10. 10. Used by scientists to explain something we can not see or understand
- 11.11. The smallest particle of an element that has the properties of that element
- 12. 12. Discovered the neutron
- 13. 13. Current model of the atom; proposed by Schrodinger
- 14. 14. Mass of protons and neutrons
- 15. 15. Developed the model of the atom in which electrons orbit the nucleus in energy levels
- 16. 16. The negative particle that circles the nucleus
- 17. 17. The neutral particle in the nucleus of an atom
- 18. 18. Proposed the "plum-pudding" model of the atom; discovered the electron