

Quiz: Elements, Atoms and Ions 2

1. Name one ancient (1000 BC) application of chemistry.
2. Define "ELEMENT".
3. Who was the man responsible for defining an element?
4. How many natural elements are there?

List the top two elements by abundance on Earth.

- 5.
- 6.

List the top two elements by abundance in the human body.

- 7.
- 8.

9. What is the chart called that is made from the systematic organization of all elements?

10. Who was the man responsible for the development of this chart?

11. Who was the man responsible for the atomic theory?

List the 5 parts of the atomic theory.

- 12.
- 13.
- 14.
- 15.
- 16.

17. Define "COMPOUND".

18. What number is never written as a subscript?

19. How many atoms of carbon are in one molecule of the compound whose chemical formula is $C_{12}H_{22}O_{11}$?

20. Draw a picture of what J.J. Thomson's Plum Pudding/Chocolate Chip Cookie model of an atom looked like. Be sure to label your parts!!!

Please fill in the following chart with the correct relative charges and masses of the three subatomic particles.

	Relative Charge	Relative Mass
Proton	21.	22.
Neutron	23.	24.
Electron	25.	26.

27. What is an isotope?

28. What does the atomic number tell you about an atom?

29. The atomic mass indicates the total number of what particle(s) in the atom?

30. In order for the atom to be neutral the number of protons must equal the number of what other subatomic particle?

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31. Please write the generic atomic symbol (hint: use the letters A,X, Z)

32. Write the atomic symbol for an isotope of chlorine with 19 neutrons.

33. What are the columns on the periodic table called?

34. What are the rows on the periodic table are called?

35. What is the family name given to the Group 1 elements?

36. What is the family name given to the Group 8 elements?

37. What is the family name given to the Group 2 elements?

38. What is the family name given to the Group 7 elements?

39. What is the family name given to the collection of elements between Group 2 and Group 3 (the short columns in the middle of the periodic table)

40. Name one of the two families that are set apart from the rest of the periodic table.

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41. Are there more metals, non metals or metalloids?

42. Name one metalloid.

43. Name one element that is a liquid at 25 degrees Celsius.

44. Name one element that is a gas at 25 degrees Celsius.

Complete the following chart:

Symbol	# of Protons	# of Neutrons	# of Electrons
¹¹³ Cd 48	45.	46.	47.
48.	4	5	49.

50. What is the mass number for the element listed in #48 from the above chart?