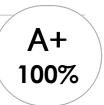
Quizlet

24 Multiple choice questions

- 1. the combining power of an element
 - a. **CORRECT:** valency
 - b. atom
 - c. alloy
 - d. mole



- 2. a statement that matter can neither be created nor destroyed; it can only be changed from one form to another
 - a. law of combining volumes
 - b. ionisation energy
 - c. activity series of metals
 - d. CORRECT: law of conservation of matter
- 3. the mass in grams of one mole of a substance with units of grams per mole; calculated by adding the atomic weights of all atoms in the substance
 - a. mole
 - b. **CORRECT:** molar mass
 - c. mineral
 - d. ore
- 4. the negative electrode in an electrolysis cell
 - a. **CORRECT:** cathode
 - b. anode
 - c. mole
 - d. atom
- 5. the quantity of product predicted from the balanced chemical equation when known quantities of reactants undergo reaction
 - a. electrolysis
 - b. empirical formula
 - c. periodic table
 - d. CORRECT: theoretical yield

- 6. the passing of a direct electric current through a solution or molten material to decompose it
 a. electronegativity
 b. molar mass
 c. isotopes
- 7. the average mass of the atoms present in a naturally occurring element relative to the mass of an atom of carbon-12 taken as exactly 12 as the standard
 - a. mineral
 - b. **CORRECT:** atomic weight

d. CORRECT: electrolysis

- c. anode
- d. atom
- 8. the percentage by mass of each element of a compound
 - a. electronegativity
 - b. **CORRECT:** percentage composition
 - c. electrolysis
 - d. isotopes
- 9. the energy required to remove an electron from an atom in the gas state
 - a. CORRECT: ionisation energy
 - b. isotopes
 - c. mineral
 - d. valency
- 10. a tool which shows the relative reactivity of common metals from most reactive to least reactive, based on the chemical reactions they undergo
 - a. **CORRECT:** activity series of metals
 - b. atomic weight
 - c. periodic table
 - d. law of conservation of matter

- 11. the formula for a compound representing its atomic or ionic composition expressed in simple whole numbers e.g. the empirical formula for benzene, C6H6 IS CH

 a. mineral
 b. theoretical yield
 c. molar mass
 d. CORRECT: empirical formula
- 12. the positive electrode in an electrolysis cell
 - a. ore
 - b. **CORRECT:** anode
 - c. mole
 - d. cathode
- 13. a statement that equal volumes of all gases at the same temperature and pressure contain equal numbers of particles
 - a. molar mass
 - b. Avogadro's number
 - c. CORRECT: Avogadro's law
 - d. isotopes
- 14. atoms with the same number of protons, but different numbers of neutrons and so different mass
 - a. anode
 - b. atom
 - c. CORRECT: isotopes
 - d. mole
- 15. a table of the chemical elements in order of atomic number, arranged in rows and columns to illustrate periodic similarities and trends in physical and chemical properties
 - a. atomic weight
 - b. **CORRECT:** periodic table
 - c. anode
 - d. mole

- 16. an equation written to describe an oxidation or reduction half-reaction, showing the loss or gain of electrons by an atom, forming an ion
 - a. CORRECT: half-equations
 - b. cathode
 - c. valency
 - d. molar mass
- 17. a natural material obtained from the crust of the Earth that contains metals or other material
 - a. mole
 - b. CORRECT: ore
 - c. anode
 - d. atom
- 18. a measure of the ability of an element to attract electrons
 - a. atomic weight
 - b. CORRECT: electronegativity
 - c. electrolysis
 - d. periodic table
- 19. a statement that the volumes of reacting gases involved (at the same temperature and pressure) may be expressed in simple whole number ratios
 - a. CORRECT: law of combining volumes
 - b. law of conservation of matter
 - c. half-equations
 - d. Avogadro's number
- 20. the number of particles in one mole of any substance; equal to 6.022 x 10 to the power of 23
 - a. Avogadro's law
 - b. CORRECT: Avogadro's number
 - c. molar mass
 - d. anode

21.	a naturally occurring solid with a fixed chemical composition from which a metal or other material can be obtained a. mole	
	b. CORRECT: mineral	
	c. valency	
	d. ore	
22.	a homogeneous mixture of a metal with one or more metals (or carbon) to give different properties e.g. steel and brass	
	a. CORRECT: alloy	
	b. atom	
	c. anode	
	d. mole	
23.	the smallest particle of matter that can take part in a chemical reaction; consists of a nucleus surrounded by electrons	
	a. cathode	
	b. CORRECT: atom	
	c. anode	
	d. alloy	
24.	the amount of substance that contains the same number of particles as there are in exactly 12.00 grams of carbon	-
	a. atom	
	b. ore	
	c. anode	
	d. CORRECT: mole	