Quizlet

20 Multiple choice questions

1. is the heat content of a system; the total of all the kinetic and potential energies for one mole of a su

A+ 100%

- a. calorimetry
- b. **CORRECT:** enthalpy (ΔH)
- c. equilibrium
- d. density
- 2. the number of moles of solute per litre of solution
 - a. dilution
 - b. density
 - c. CORRECT: molarity
 - d. calorimetry
- 3. is the strongest of the intermolecular forces; the slightly positive charge on the hydrogen of one molecule is strongly attracted to the slightly negative charge on the F, O or N of another molecule
 - a. density
 - b. CORRECT: hydrogen bonding
 - c. cohesion
 - d. dilution
- 4. is where energy is released to the surroundings
 - a. cohesion
 - b. dilution
 - c. CORRECT: exothermic reaction
 - d. endothermic reaction
- 5. the mass of a substance divided by its volume; units are g/cm3; i.e.. lead has a density of 11.3 g/cm3
 - a. molarity
 - b. cohesion
 - c. CORRECT: density
 - d. kelvin

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6.	e unequal charge distribution between two atoms so that the atoms of a bond have a δ + and a δ - a. kelvin b. CORRECT: dipole c. density d. joule	
7.	e forces between molecules; e.g dispersion forces, dipole-dipole forces and hydrogen bonding a. non-polar molecule b. dipole-dipole force c. dispersion force d. CORRECT: intermolecular forces	
8.	e dissolving of a substance in a liquid a. CORRECT: dissolution b. dilution c. dipole d. cohesion	
9.	state symbols- (s), (l), (aq), (g), -in equations show the state of each substance a. calorimetry b. dipole c. cohesion d. CORRECT: phase descriptors	

- 10. in terms of a solution; refers to the addition of water to a solution to decrease concentration; the number of moles of a solute is unchanged
 - a. dissolution
 - b. **CORRECT:** dilution
 - c. cohesion
 - d. kelvin

- Test: 11 Chemistry 5 Water Part 1 | Quizlet 11. the attraction between the molecules of a liquid; it holds the particles of the liquid together a. CORRECT: cohesion b. dilution c. density d. molarity for a reversible reaction occurs when the rate of the forward reaction equals the rate of the back reaction 12. a. molarity b. CORRECT: equilibrium c. dilution d. dynamic equilibrium an equilibrium where molecules are undergoing the forward as well as the back reaction, at the same rate; e.g.. 13. liquid water and water vapour in a sealed container a. CORRECT: dynamic equilibrium b. molarity c. dilution d. equilibrium a weak attractive force between molecules due to the attraction between negative electrons of one molecule and the positive nucleus of another molecule a. dipole b. cohesion c. CORRECT: dispersion force
 - 15. is where energy is absorbed from the surroundings
 - a. dilution
 - b. cohesion
 - c. CORRECT: endothermic reaction
 - d. exothermic reaction

d. dipole-dipole force

- 16. an attractive intermolecular force between the dipoles of neighbouring polar molecules
 - a. dispersion force
 - b. CORRECT: dipole-dipole force
 - c. dissolution
 - d. dipole
- 17. has no overall dipole; some molecules are non-polar if they are symmetrical so dipoles cancel, as in linear O = C = O; elements such as O2 are non-polar as the atoms share the electrons equally and there is no dipole
 - a. dipole
 - b. calorimetry
 - c. CORRECT: non-polar molecule
 - d. dipole-dipole force
- 18. the scientific temperature scale with absolute zero as 0 K; a charge of one kelvin is the same as a charge of one degree Celsius; $K = {}^{\circ}C + 273$
 - a. dilution
 - b. **CORRECT:** kelvin
 - c. dipole
 - d. density
- 19. is the SI unit for energy, such as heat
 - a. CORRECT: joule
 - b. density
 - c. kelvin
 - d. dipole
- 20. the measurement of heat changes associated with chemical reactions and physical processes
 - a. density
 - b. molarity
 - c. CORRECT: calorimetry
 - d. joule