

Chemistry Grade 8 Quiz

Teacher's Answer Key

1. _____ and _____ are made up of molecules and/or atoms that are moving about relative to each other. (liquids, gases)
2. _____ form molecules that range in size from two to thousands of _____. (atoms, atoms)
3. Each pure substance has specific physical and _____ properties that are used to identify it. (chemical)
4. The atomic number is how many _____ are inside the nucleus of that atom. (protons)
5. The particle in the nucleus with no charge is called a _____. (neutron)
6. The energy transferred between two objects at different temperatures is called _____. (heat)
7. The total number of each type of _____ is conserved, and therefore mass does not change. (atoms)
8. Exothermic reactions _____ energy, which is usually seen as a temperature _____. (release, increase)
9. Electrons have a _____ charge and are found _____ the nucleus of the atom. (negative, outside)
10. The state of matter that is higher in energy than a gas is called _____. (plasma)
11. The Ideal Gas Law relates _____, _____, and _____ into one simple statement: _____. (temperature, pressure, volume, $PV=nRT$).
12. Fruit and potatoes can be used to make a battery to generate electricity using _____. (electrochemistry)
13. Electrolysis produces chemical changes at the _____. (electrodes)
14. Combustion is a type of chemical reaction that requires fuel and _____, and releases _____. (oxygen, energy)
15. _____ reactions break a compound into smaller pieces, like hydrogen peroxide into water and oxygen. (decomposition)
16. Electrolytes are substances that become a conductor of _____ when dissolved in a _____. (electricity, solvent)
17. When an atom or molecule loses an electron, it becomes a(n) _____ and takes on a _____ charge. (ion, positive)
18. Supercooled liquids need to _____ in temperature in order to freeze into a solid. (increase)
19. _____ reactions absorb energy from the solution in order for the reaction to take place, which usually looks like a temperature _____. (endothermic, decrease)
20. Crystals are _____ structures with repeating subunits and patterns. (solids)

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Student Quiz Sheet

Name _____

Fill in the blank:

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- The Ideal Gas Law relates _____, _____, and _____ into one simple statement: _____.
- Fruit and potatoes can be used to make a battery to generate electricity using _____.

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