ACROSS

3 A substance whose atoms all contain the same atomic number
6 A substance that dissolves in water and produces a non-conducting solution
10 Same throughout
11 A chemical bond formed by the transferring of electrons between atoms
12 A measure of the average kinetic energy of the molecules of a substance
13 A molecule of very high molecular weight that is made up of repeating units of low molecular weight
14 A measure of a substance's dissolvability
15 The original compounds or substances in a chemical reaction
16 A chemical bond formed by the sharing of electrons between atoms
21 A change in the type of matter, resulting in a new chemical identity
22 Compounds that have the same molecular formula but a different arrangement of the atoms
23 The substance used to dissolve other compounds or molecules
26 A compound that produces hydronium ions (protons) when dissolved in water
28 A mixture that has the same properties and makeup throughout
32 A change in the form of matter, not in the chemical identity
33 A substance that increases the rate of a reaction without being consumed
34 A reaction that takes in energy during a chemical reaction
35 A compound that contains only hydrogen and carbon

DOWN

1 A compound that produces hydroxide ions when dissolved in water
2 A substance that contains Avogadro's Number of atoms or molecules
4 A substance that dissolves in water and produces an electrically conducting solution
5 A simple compound of low molecular weight used to create polymers
7 The branch of chemistry that studies molecules or compounds that do not contain carbon
8 A measure of the amount of one material relative to the whole
9 Made up of distinguishable parts
17 The energy that is transferred from one location to another as a result of a temperature difference
18 To decrease the concentration by increasing the amount of solvent
19 An ionic compound produced in a neutralizing reaction
20 The compounds or substances that are the result of a chemical reaction
24 A reaction that gives off energy during a chemical reaction
25 A compound that contains only 2 elements
27 A substance made up of 2 or more elements chemically combined
29 The substance that is dissolved
30 The branch of chemistry that studies all molecules or compounds containing carbon
31 Anything that occupies space and has mass