Matter Crossword and Vocabulary

Across
3. A soft drink is a ______ of carbon dioxide gas and liquid since the gas and liquid are not chemically bonded together.
6. When salt is dissolved in water, it forms a _______.
8. Carbon is an_____, a substance made of the same type of atoms.
9. Three states of matter are_______, liquid, and gas.
11. A chart that groups elements by similar properties is called the __________.

Down
1. An_____ is a very, very small particle.
2. A diamond is a__________, a solid that has a regular pattern of atoms.
4.______ is anything that fills space and has mass.
5. The formula NaCl shows the elements that are in a __________ of table salt.
7. Water is a_______; it has a constant size, but can change its shape.
10. Helium is a_______; its molecules spread out to fill a space.
Vocabulary
Matter - anything that fills space and has mass
Atom - a very, very small particle that makes up all matter
Molecule - a small particle made of two or more connected atoms
Element - a substance made of all the same type of atoms
Electron - a negatively charged part of an atom
Chemical bond - formed when electrons are transferred or shared between two atoms
Compound - a substance made of two or more elements chemically bonded together
Mixture - two or more elements and/or compounds that are mixed together but are not chemically bonded
Solution - a completely uniform mixture
Physical state - the form a substance takes based on the behavior of its molecules or atoms:
Solid - a state of matter in which the molecules or atoms are close together; has constant size and shape
Liquid - a state of matter in which the molecules or atoms are close together; has constant size but can take any shape
Gas - a state of matter in which the molecules or atoms are very far apart; can take any size and shape
Crystal - a solid that has a regular pattern of atoms or molecules
Density - a description of how tightly packed the molecules are in substance
Miscibility - the ability of two substances to dissolve together
Solubility - the ability of a substance to dissolve in another substance
Periodic table - a chart that groups the elements by similar properties and structures