## Atoms, Molecules, compounds \& Mixtures Reading <br> https://education.jlab.org/qa/atoms and elements.html

Directions:

1) Read the two pages below from my website (see heading pictures for what pages to read).
2) Answer the questions based on the page of the website shown above.


What is the difference between atoms and elements?

Get ready for an imperfect analogy.

1) Different types of ice cream are like (circle): atoms or elements
2) Scoops of ice cream are like (circle): atoms or elements
3) 

$\qquad$ 1. element
a.) the smallest amount of an element
$\qquad$ 2. atom
b.) two or more atoms that are chemically joined together $\left(\mathrm{H}_{2}, \mathrm{O}_{2}, \mathrm{H}_{2} \mathrm{O}\right.$, etc...)
$\qquad$ 3. compound
c.) a basic substance that can't be simplified (hydrogen, oxygen, gold, etc...)
$\qquad$ 4. molecules
d.) a molecule that contains more than one element $\left(\mathrm{H}_{2} \mathrm{O}\right.$, $\mathrm{C}_{6} \mathrm{H}_{12} \mathrm{O}_{6}$, etc...)

4) The smallest parts of matter are called $\qquad$ .
5) $A$ $\qquad$ is a pure substance that is made only from one kind of atom.
6) $A$ $\qquad$ is a substance made by combining two or more different types of
elements that have been chemically joined.
Examples of these include:
$\qquad$
$\qquad$ ), $\qquad$

$\qquad$
$\qquad$ , \& $\qquad$ ( $\qquad$ ),
7) $A$ $\qquad$ is a substance made by combining two or more different materials in such a way that no chemical reaction occurs.

Examples of these include:
$\qquad$
$\qquad$ , \& $\qquad$

