Atom & Molecule Relationships

Name:

Period:

Use the website chem4kids.com *to answer the questions below.*

[Start by going to the page on the navigation bar called ATOMS.] Determine if the statement is true or false. If false, replace the word in **bold** with the correct word on the line. If true, write "true" on the line. The possible word choices in the list provided below may be used more than once:

atoms elements molecules

_____ The term "molecule" is used to describe any **ELEMENTS** that are connected together

_____ Just like cells are the "building blocks" of living things, **ATOMS** are the "building blocks" of everything in the universe, biotic or abiotic.

_____ Atoms with the same characteristics are called **MOLECULES**.

_____ The periodic table shows how similar or different **MOLECULES** of elements are compared to each other.

_____ **ATOMS** can be made of just one kind of element, or several elements put together.

[Now got to the page on the navigation bar called PERIODIC TABLE.] The elements represented by the symbols C, H, and O are extremely important for life on Earth. They can combine to make all sorts of molecules that show up in both living things and what living things need to survive. Find a periodic table in the website and write down the full names of these elements:

C stands for the element called _____

H stands for the element called _____

O stands for the element called _____

On a periodic table, the larger the atom, the higher the atomic number assigned to it. Of the three elements listed above (C, H, O), which element…

… has the biggest atom? _____

… has the smallest atom? _____

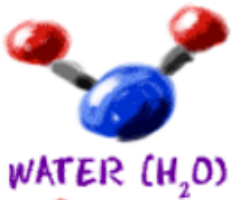
Read about each of these elements (C, H, O). Which element…

… is the most common in the universe? _____

… is part of every cell of any living thing on Earth? _____

… is a really important part of Earth's breathable air? _____

Look at the image below from the website. Does it show an atom or a molecule? _____
Explain your answer in the space next to the diagram.



Work: 7 points, Assessment: 3 points