Atom Recipes

Name:

Period:

You've been learning about photosynthesis and cellular respiration. This includes some things that look like strange math equations, which describe what is going on during these cell processes. For this exercise, we'll be focusing upon what these equations mean.



To start with, you should notice that each equation has the same letters showing up, over and over: C, H, and O. Each of these letters represents a particular element. In the space below, write the name of the element that is described by its symbol.

C stands for the element
H stands for the element
O stands for the element
xt, we'll take a look at how these atoms fit together (to form molecules) to make different things. You bably already know the chemical formula for water:
H_2O
nk of this formula as a recipe. It tells you what ingredients (atoms) you need to make water with the ers, and how many of each kind of atom you will need with the little numbers. In this case, 2 atoms of drogen, and one atom of oxygen, are required. For each of the molecules below, describe what kind o ms are needed, and how many of each will be used to make
arbon dioxide
O ₂ will need atom of and atoms of
xygen
2 will need atoms of
lucose (sugar)
$_6H_{12}O_6$ will need atoms of , atoms of , an
atoms of
nat "ingredients" are needed for the process of photosynthesis? [hint: textbook p.148]
and and light energy
nat does the process of photosynthesis make? [hint: textbook p.148]
and
nat "ingredients" are needed for the process of cellular respiration? [hint: textbook p.149]
and
nat does the process of cellular respiration make? [hint: textbook p.149]

_____ and energy (ATP)

and _

Work: 12 points