	Two examples of elements are and, and two examples of compounds are and
	and
2.	Describe what happens when copper (Cu) is heated.
	Write a word equation and a balanced symbol equation for the reaction that takes place when copper is heated
Wo	rd Equation)
Syr	nbol Equation)
	Write a word equation and a balanced symbol equation for the reaction that takes place when copper oxide is heated with carbon powder.
Wo	rd Equation)
Syr	nbol Equation)
j	What is a blast furnace?
	Lavoisier's list of elements included things like copper, iron and zinc. What was his reason for declaring these things to be elements?
	Why did Lavoisier mistakenly include things like barium oxide and magnesium oxide on his list of elements?
	What is fire?
•	
). '	The Law of Conservation of Mass states that
0.	Fill in the gaps: 1.0 gram of magnesium + grams of oxygen → 1.66 grams of magnesium oxide
	$50 \text{ g zinc} + 12.24 \text{ g oxygen} \rightarrow \underline{\qquad} \text{g zinc oxide}$
1.	Why is the ash left over after a fire much lighter than the wood you started with?



]		nall amount of it cools down?	water in a can	for a few	v minutes and then you place a lid on the can. Why does the
					- <u></u>
Part F					magnesium oxide forms. In terms of weight, magnesium le oxygen makes up%.
]	make up all was, but he	the different el	ements all hav	ve differe e how hea	at atoms existed, he also figured out that the atoms which int weights. He didn't know how heavy each atom actually avy the different types of atoms were compared to each other
	Atom	Relative Atomic	Relative Atomic	16. —	How heavy are carbon atoms compared to hydrogen atoms?
		Weight (according to Dalton)	Weight (actual)	17.	How heavy are oxygen atoms compared to hydrogen atoms?
	Hydrogen, H	1	1		
	Carbon, C			18. How heavy are sulphur atoms compared to oxygen atoms' (Here we have used the "ph" spelling of sulphur, which Dalton used. The "f" spelling of sulfur came lat	
	Nitrogen, N			but has pro	bably become more common. Both spellings are acceptable.)
	Oxygen, O				
	Sulphur, S			19.	Why did Dalton assign hydrogen atoms a weight of 1?
	Copper, Cu				
(Use Dalton's a (a) water (b) nitr Skill-Building E 21. If exactly 10	atomic symbols ogen dioxide, l xercises: Data ogen grams of cop	s to draw the NO ₂ (c) nitrice Analysis oper chemical	following acid, HN	NO ₃ (d) carbon disulphide, CS ₂ (e) carbonyl sulphide, OCS with exactly 25.2 grams of oxygen, 125.2 grams of copper
	(a) % by wei	ight of copper i	n CuO		tages by weight of copper and oxygen in copper oxide. (b) % by weight of oxygen in CuO y how heavy are copper atoms compared to oxygen atoms?
2		O. How many			earbon will react with 16 grams of oxygen to produce carbon you need to produce carbon dioxide, CO ₂ , if you start with 12

