0 1 . 1	Hydrogen and oxygen react to produce water. Balance the symbol equation below which represents this reaction. [1 mark]								
	:	2H ₂	+	02	→	2H ₂ O			
0 1 . 2	Metals can react with oxygen in the air to produce metal oxides. The reaction below represents one of these reactions.								
	Balance the symbol equation below which represents this reaction. [1 mark]								
		4AI	+	3 0 ₂	→	2Al ₂ O ₃			
0 2 . 1	Sodium and water react to produce sodium hydroxide and hydrogen gas. The word and balanced symbol equations below show the reaction.								
	sodium	+	water	→	sodium hy	ydroxide	+	hydro	gen
	2Na	+	2H ₂ O	→	2NaOH		+	H ₂	
	Why is a balanced symbol equation better at describing the reaction than equation? [2 Tells you the number of atoms reacting [1] Shows no atoms are lost or gained OR								
	number of atoms are the same on both sides [1]								
0 2 . 2	For the abov 84 grams. T		-					that rea	acted was
TOP TIP: Full marks for the correct answer, even without working. 1 mark for the correct working.	What is the mass of the sodium hydroxide produced. [2 marks]								
	84 - 4				[1]				
	Mass of soc	dium hy	droxide =	8	g	rams			[2]
0 2 . 3	Explain you								[2 marks]
	No atoms a	are lost	or made					[1]	
	Mass of th	e produ	icts must	equal r	nass of the	reactants		[1]	

(Total 8 marks)