02.1	Calculate the formula mass (Mr) of $40 + 12 + 48$	of calcium carbonate [1]	[2 marks]
	$CaCO_3 \longrightarrow CaO + CO_2$ Calculate the formula mass (Mr) of calcium carbonate.		
0 2	Limestone (CaCO3) is a raw material. On strong heating it is converted to calcium oxide which is a very useful substance.		
TOP TIP : You can use the method from the video, or another method that you have learnt as long as it works for you!	Alternative working: $168 (NaHCO_3) \longrightarrow 44 (CO_2)$ $1g \longrightarrow 44/168$ $22g \longrightarrow 5.76g$ Mass of carbon dioxide = 5.76 g	[1] [1] [1]	[3]
	Moles = Mass/RFM Moles CO2 = Moles NaHCO3 ÷ 2 Mass = moles x RFM	NaHCO ₃ = 22/84 CO ₂ = 0.262 /2 CO ₂ = 0.131 x 44	= 0.262 [1] = 0.131 [1] = 5.76 [1]
	Relative atomic masses: H = 1; C RFM NaHCO ₃ = 84	= 12; 0 = 16; Na =23 CO ₂ = 44	[3 marks]
	hydrogencarbonate. Show clearly how you work out your final answer.		
	A spoonful of baking soda contains a mass of 22 g of sodium hydrogencarbonate. Calculate the mass of carbon dioxide that could be made from 22 g of sodium		
	2 NaHCO₃ -	$\rightarrow Na_2CO_3 + H_2O$	+ CO ₂
0 1	A solid called sodium hydrogencarbonate is heated in an oven. It forms carbon dioxide gas as shown by the equation below.		