

REACTING MASS CALCULATIONS 1

	e mass of aluminium that can be formed fuminium oxide.	rom $2Al_2O_3 \rightarrow 4Al + 3O_2$
Calculate th calcium to fo	re mass of oxygen needed to react 10.0 orm calcium oxide.	of 2Ca + $O_2 \rightarrow 2CaO$
	of propane could burn in 48.0 g of oxygen?	$C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$
What mass o	of ammonia can be made from 20.0 g of hydrog	jen? $3H_2 + N_2 \rightarrow 2NH_3$
What mass 24.5 kg of su	of sodium hydroxide is needed to neutra	llise $H_2SO_4 + 2NaOH \rightarrow Na_2SO_4 + 2H_2O_4$
	of carbon dioxide is formed when 7.41 or	of $CuCO_3 \rightarrow CuO + CO_2$

')	2.08 kg of iron ox		11101107	nue is needed to rea	Ct With	re ₂ C	$y_3 + 300 \rightarrow 2$ Fe + 30	,O ₂				
8)	What mass of chlorine reacts with 20.0 g of iron to form $2Fe + 3Cl_2 \rightarrow 2FeCl_3$ iron(III) chloride?											
9)		a with	hydrog	rocket fuel. It can be m gen peroxide. What m 8 g of hydrazine?			$NH_3 + H_2O_2 \rightarrow N_2H_4$	+ 2H₂C)			
10)	of anhydrous sod	ium sul	fate on	fate decompose to form heating. Calculate the seand the value of <i>x</i> .			$Ia_2SO_4.xH_2O \rightarrow Na_2SO$) ₄ + xH	l ₂ O			
Area		Strength	To develop		Strength	To develop	Area	Strength	To develop			
Done with care and thoroughness				Can find moles from mass			Can convert units					
Shows suitable working			Can use reacting ratios in equations			Can find water of crystallisation						
Can wor	k out M _r			Can find mass from moles			Gives units					