			Name	j:	Period:
Guid	ed Not	es: Gas Stoic			
			NH <sub>3</sub> (g) + _	O₂(g)>N	$O_2(g) + \underline{\hspace{1cm}} H_2O(g)$
• W		eactants and pro		s), liquids (I) or aqı	ueous (aq), the coefficients represent:
<b>■</b> \//			 oducts are gases (§	the coefficients	renresent.
VV					represent.
	o vol	umes of	in		
Practio					<del></del>
1.		nine the volume	of hydrogen gas n	eeded to react co	mpletely with 5.00 L of oxygen gas to form water
	vapor.	Conditions for t	he gases are STP.		
			2	H <sub>2</sub> (g) + O <sub>2</sub> (g)> 21	<b>d</b> ₂O(g)
2	If E O I	of N roacts at S	TD how many gray	ms of NH are pro	Chooub
2. If 5.0 L of $N_2$ reacts at STP, how many grams of $NH_3$ are produced? $N_2(g) + 3H_2(g)> 2NH_3(g)$					
			14	2(8) 1 3112(8) 7 21	W13(6)
3.	Calcula	te the volume o	foxygen gas at 30	). K and 1.5 atm th	nat is required to completely react wth 52.0 g of iron.
			4F6	e(s) + 3O <sub>2</sub> (g)> 2F	<sup>-</sup> e <sub>2</sub> O <sub>3</sub> (s)
	2	Why did we us	a staishiamatru fir	rst in this problem	2
	a.	willy did we us	e stoichiometry fii	st iii tiiis probleiii	ŗ
	b.	Why do we ha	ve to use the ideal	gas law for this n	rohlem?
	٠.	m, ao me na	te to use the faca.	Bas law for this p	
	c.	Why couldn't v	ve use the molar v	olume in this prol	olem?
		-		·	
	d.	When you are	n't sure how to sol	ve the problems,	what will always work?