

Topic: Balancing Equations	Name:	Date:
Questions/Main Ideas:	Notes:	
What is the difference between a subscript and a superscript?		
How many atoms of each element are there in one formula unit of ammonium sulfide ?		
How many atoms of each element are there in one formula unit of barium nitrate ?		
Why do we have to balance equations?	Equations must be balanced to satisfy the .	
	The total number of _____ of each _____ on the _____ side must equal the total number of _____ of each _____ on the _____ side	
Are these equations balanced or unbalanced right now? Why?	Ca(OH)₂ (s) → CaO (s) + H₂O (g)	
	Ca(OH)₂ (aq) + HCl (aq) → CaCl₂ (aq) + H₂O (l)	
How do we balance equations?	By adding	
	Do NOT attempt to	
Balance these equations:	H₂ (g) + O₂ (g) → H₂O (g)	
	<i>Tip #1: Start by balancing elements that</i>	
	Ca(OH)₂ (aq) + HCl (aq) → CaCl₂ (aq) + H₂O (l)	
	<i>Tip #2: Save pure elements to be balanced</i>	
	C₂H₆ (g) + O₂ (g) → H₂O (g) + CO₂ (g)	
	<i>Tip #3: Balance polyatomic ions as one unit if they are on both sides</i>	
	KOH + H₃PO₄ → K₃PO₄ + H₂O	
Summary and Question(s) I have:		