Nai	me: Date:			
Title: Lego Stoichiometry				
Introduction: The following activity is designed to assist you in "seeing" what happens when quantities of reactants are changed into quantities of products. Please follow the instructions and complete questions as you go.				
Prediction: (will the number of starting pieces affect the number or formula of water molecules that form?)				
Procedures:				
1.	Remove the lego pieces from the bag.			
Blue = hydrogen Red = oxygen				
2.	Assemble the lego pieces to form as many hydrogen (H_2) and oxygen (O_2) molecules as possible (imagine that a bond is formed between 2 hydrogen atoms and 2 oxygen atoms by snapping the pieces together).			
3.	Make a sketch to show what the pieces look like before the reaction.			
Before				
4.	Write a balanced chemical reaction of hydrogen and oxygen to form water.			
5.	Simulate the reaction using the lego pieces.			

6.	Make a sketch of how the pieces look after the reaction.			
After				
	7. Complete the following sentences:			
		a.	For every 6 mols H ₂ , mols O ₂ will react.	
		b.	For every 2 mols H ₂ ,mols O ₂ will react.	
		C.	For every 0.34 mols H ₂ ,mols O ₂ will react.	
		d.	For every 6 mols H ₂ , mols H₂O will be produced.	
		e.	For every 2 mols H ₂ ,mols H ₂ O will be produced.	
		f.	For every 5.67 mols H ₂ ,mols H₂O will be produced.	
	8.	What	is the significance of the coefficients in a balanced equation?	
	9.	Which	of the two reactants (H_2 or O_2) is limiting? Explain.	
10	. V\	/as you	ur prediction correct? If not, what was the error in your thinking?	