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Cint 4 Circincal Academis Worksheets				
Minilab: Is Mass Conserved??				
 Obtain your materials: a small cup filled with HCl, a strip of magnesium, and a plastic bag. 				
2. Observe the HCl and the Mg. Record observations				
Place the cup and the Mg in the bag. Do not let the Mg fall into the cup. Seal the bag. Measure				
the mass of the entire sealed bag.				
Go back to your desk, without opening the bag, Drop the Mg into the cup. Observe.				
Measure the mass of the entire sealed bag again when it is done reacting.				
Make sure you write your observations down for before and after the reaction.				
Answer the questions below in FULL SENTENCES.				
How do you know a reaction occurred?				
2. Did the mass change? How much? If it changed, do you think it was due to an actual change in				
the mass or due to a gas escaping through the seal of the bag?				
3. Did the shape of the bag change? Explain.				
4. Do you think mass will change in any chemical reaction? Explain.				
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Worksheet 1: Writing formulas and Determining number of atoms.				
Directions For the first parties like the sumbout for the planet				

	Equation – Label reactants and products	Atoms of each element- on reactant side	Atoms of each element- on product side
9	$Cd(NO_3)_2 (aq) + H_2S(g) \rightarrow CdS(s) + 2HNO_3(aq)$		
10	$Zn(s) + 2HCl(aq) \rightarrow H_2(g) + ZnCl_2(aq)$		
11	$4 \text{ C} + \text{S}_8 \rightarrow 4 \text{ CS}_2$		
12	$2 N_2 + 5 O_2 \rightarrow 2 N_2 O_5$		
13	2 H ₃ PO ₄ + 3 Mg(OH) ₂ → Mg ₃ (PO ₄) ₂ + 6 H ₂ O		

14. In each of the above equations, was matter conserved? Explain.

For each of the following, write the chemical equation.