Magnesium ar	nd Magnesium Oxide	Name:			
_	ce magnesium oxide from		al) and to analyse		
its composition	•	magnesiam (me	iai, aira to airai, se		
Equipment: crucible and lid, tongs, pipe-clay triangle, Bunsen burner, heat-					
proof mat, magnesium ribbon (5-10 cm long), electronic balance, safety					
glasses.	D				
Method:					
	the mass of the crucible a	nd its lid:			
	Record the mass of the strip of magnesium:				
	Curl up the magnesium ribbon into a neat spiral and place it in the				
	crucible. Make sure that the curled-up ribbon is <u>resting on the bottom of</u>				
	the crucible and that no part of it is sticking up; this makes it react				
	quicker. Practise lifting the crucible lid with the tongs before you start heating.				
•	4. Heat the magnesium strongly in the crucible, keeping the lid on the crucible. The magnesium will				
	soon start to glow and then turn white. Ensure that it doesn't burn too quickly by keeping the lid				
on.					
_	5. Occasionally lift the lid (with tongs) to allow oxygen in.				
	6. After all the magnesium metal has been completely transformed into magnesium oxide, allow				
	everything to cool down, and then reweigh the crucible, its lid, and the MgO (all together).				
Safety Note: The crucible will be extremely hot after it has been heated.					
Results:	<u> </u>		.,	<del></del>	
Before Reaction	n				
A: Mass of M					
	ucible and Lid				
	ucible + lid + Mg				
		l .			
After Reactio	n				
D: Mass of crucible + lid + MgO					
E: Mass of MgO (D minus B)					
F: Overall increase in mass (mass of oxygen) (E minus A)					
<b>Observations:</b>					
Describe what happened when the magnesium was heated.					
Questions:					
1. Why was there an overall increase in mass?					
2. Why is it better to calculate the mass of the magnesium oxide that was produced rather than					
scrapin	g out the magnesium oxid	e onto the electr	onic scales?		
Analysis:					
	g Mg +	$O_2 \rightarrow$	g MgO (se	e A, F, and E in the tables above.)	
% (by weight) of Mg atoms in MgO: $\frac{Mass \text{ of Mg}}{Mass \text{ of MgO}} \times 100\% = \times 100\% =$					
Mass of MgO					
0.4.11		Mass of O			
% (by weight) of O atoms in MgO: $\frac{Mass \text{ of O}}{Mass \text{ of MgO}} \times 100\% = \times 100\% =$					

