## Chemical Changes Exercises

## Metals and oxides

A metal will react with oxygen to form a m	netal oxide. Complete the blank spaces below:
1. magnesium + oxygen →	
2. copper + oxygen →	
3. zinc + → zin	nc oxide
4 + oxygen → c	alcium oxide
Metals and water	
Reactive metals will react in water to prod Complete the blanks below:	uce a metal hydroxide and hydrogen gas.
5. lithium + water $\rightarrow$ lithium hydroxide + _	
6. sodium + →	sodium hydroxide + hydrogen
7 + water → calcid	um + hydrogen
8. potassium + water →	+
Metals will react with acid to form a metal  The name of the salt depends on the acid of the salt depends on the acid of the salt name from the salt name f	used.
Acid used	Salt name after reaction
Hydrochloric acid	
Sulfuric acid	
Nitric acid	
Fill in the blanks below:	
9. zinc + hydrochloric acid $\rightarrow$ zinc chloride	+
10. sodium + sulfuric acid →	+ hydrogen
11. calcium + acid →	calcium nitrate +
12 +	magnesium chloride + hydrogen

