



Reactants			Products			
<b>SOLID SODIUM</b>	<b>LIQUID WATER</b> 					
<b>Na (s)</b>	<b>H<sub>2</sub>O (l)</b> 					
What kind of particles?						
# protons in each _____	H atom _____ protons	O atom _____ protons	Na <sup>+</sup> ion _____ protons	OH <sup>-</sup> ion O atom	H atom _____ protons	H atom _____ protons
# electrons in each _____	_____ electrons	_____ electrons	_____ electrons	H atom	_____ electrons	_____ electrons
net charge _____	_____ net chg	_____ net chg	_____ net chg	Plus Net chg	_____ net chg	_____ net chg
<b>Arrangement</b>						
<b>Attractions</b>						

# ANALYSIS OF THE REACTION OF SODIUM WITH WATER

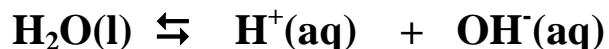
## THE CHANGES SODIUM

SODIUM before	SODIUM after	Notes-
What kind of particle?	What kind of particle?	What happened to the sodium?
How many protons?	How many protons?	
How many electrons?	How many electrons?	
		Chemistry term for this change

## WATER MOLECULES

water before	water after	Notes-
		What happened to the water?

The ionization of water occurs in water all the time as a reversible reaction.



## HYDROGEN IONS

hydrogen before	hydrogen after	Notes-
What kind of particle?	What kind of particle?	What happened to the hydrogen?
How many protons?	How many protons?	
How many electrons?	How many electrons?	
		Chemistry term for this change

