Reactants			Products			
SOLID SODIUM	**LIQUID WATER**					
Na (s)	**H_2O (l)**					
What kind of particles?						
# protons in each _____ # electrons in each _____ net charge _____	H atom ____ protons ____electrons ____ net chg	O atom ____ protons ____electrons ____ net chg	Na^+ ion ____ protons ____electrons ____ net chg	OH^- ion O atom H atom Plus Net chg	H atom ____ protons ____electrons ____ net chg	H atom ____ protons ____electrons ____ net chg
Arrangement						
Attractions						

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.

$$H_2O(l) \leftrightarrows H^+(aq) + OH^-(aq)$$

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