1 Perioidicity I

1.1 Period 3

1.2 Physical Trends

1.3 Chemical Trends

	Na (NaO2)	Mg	AI {Al2O3}	Si	P (D406 > D4010)
+ 02	{NaO2} Vigorous, orange flame May form {N2O2}	{MgO} Vigorous, white flame	Initially vigorous Oxide layer forms	{SiO2} Slow	{P406 ->P4010} Vigorous, yellow fl Mixture forms
O-ide	Alkaline	Alkaline	Amphoteric	Acidic	Acidic
O-ide $+$ $H2O$	${\sf NaOH}\}$ Vigorous	Sparsely soluble	Insoluble	Insoluble	{H3PO4}
O-ide + H+/OH- + Cl2 Cl-ide	{NaCI}	{MgCl2}	{AICI3}	{SiCl4}	{PCI5}
Cl-ide + H2O + H2O	Neutral		Hydrolysis to acidic soln		Produces {HCI}