

Activity: Living Periodic Table—Element Information Chart

Atomic Radius (in picometers)

#3 Lithium—155	#4 Beryllium—112	#5 Boron—98	#6 Carbon—91
#7 Nitrogen—92	#8 Oxygen—73	#9 Fluorine—72	#11 Sodium—190
#12 Magnesium—160	#13 Aluminum—143	#14 Silicon—132	#15 Phosphorus—128
#16 Sulfur—127	#17 Chlorine—99	#19 Potassium—235	#20 Calcium—197
#31 Gallium—141	#32 Germanium—137	#33 Arsenic—139	#34 Selenium—140
#35 Bromine—114	#37 Rubidium—248	#38 Strontium—215	#49 Indium—166
#50 Tin—162	#51 Antimony—159	#52 Tellurium—160	#53 Iodine—133

Ionization Energy (in kJ/mol)

#3 Lithium—520	#4 Beryllium—899	#5 Boron—801	#6 Carbon—1,086
#7 Nitrogen—1,400	#8 Oxygen—1,314	#9 Fluorine—1,680	#11 Sodium—496
#12 Magnesium—738	#13 Aluminum—578	#14 Silicon—786	#15 Phosphorus—1,012
#16 Sulfur—1,000	#17 Chlorine—1,251	#19 Potassium—419	#20 Calcium—590
#31 Gallium—579	#32 Germanium—760	#33 Arsenic—947	#34 Selenium—941
#35 Bromine—1,143	#37 Rubidium—403	#38 Strontium—549	#49 Indium—558
#50 Tin—709	#51 Antimony—834	#52 Tellurium—870	#53 Iodine—1,009

Electron Affinity (in kJ/mol)

#3 Lithium—58	#4 Beryllium—241	#5 Boron—23	#6 Carbon—123
#7 Nitrogen—0	#8 Oxygen—142	#9 Fluorine—333	#11 Sodium—53
#12 Magnesium—230	#13 Aluminum—44	#14 Silicon—120	#15 Phosphorus—74
#16 Sulfur—200	#17 Chlorine—348	#19 Potassium—48	#20 Calcium—154
#31 Gallium—35	#32 Germanium—118	#33 Arsenic—77	#34 Selenium—195
#35 Bromine—324	#37 Rubidium—47	#38 Strontium—120	#49 Indium—34
#50 Tin—121	#51 Antimony—101	#52 Tellurium—190	#53 Iodine—295