## Elements/Ions Do Not "Want" To Lose Electrons!

## Table 7.5 Successive Ionization Energies (kJ/mol) for the Elements in Period 3

	Element	<i>I</i> 1	I <sub>2</sub>	I <sub>3</sub>	<i>I</i> <sub>4</sub>	<i>I</i> 5	I <sub>6</sub>	I <sub>7</sub>
al decrease	Na Mg Al Si P	495 735 580 780 1060	4560 1445 1815 1575 1890	7730 2740 3220 2905	Core ele 11,600 4350 4950		21,200	
— General	S Cl Ar	1005 1255 1527	2260 2295 2665	3375 3850 3945	4565 5160 5770	6950 6560 7230	8490 9360 8780	27,000 11,000 12,000

\*Note the large jump in ionization energy in going from removal of valence electrons to removal of core electrons.

General increase —