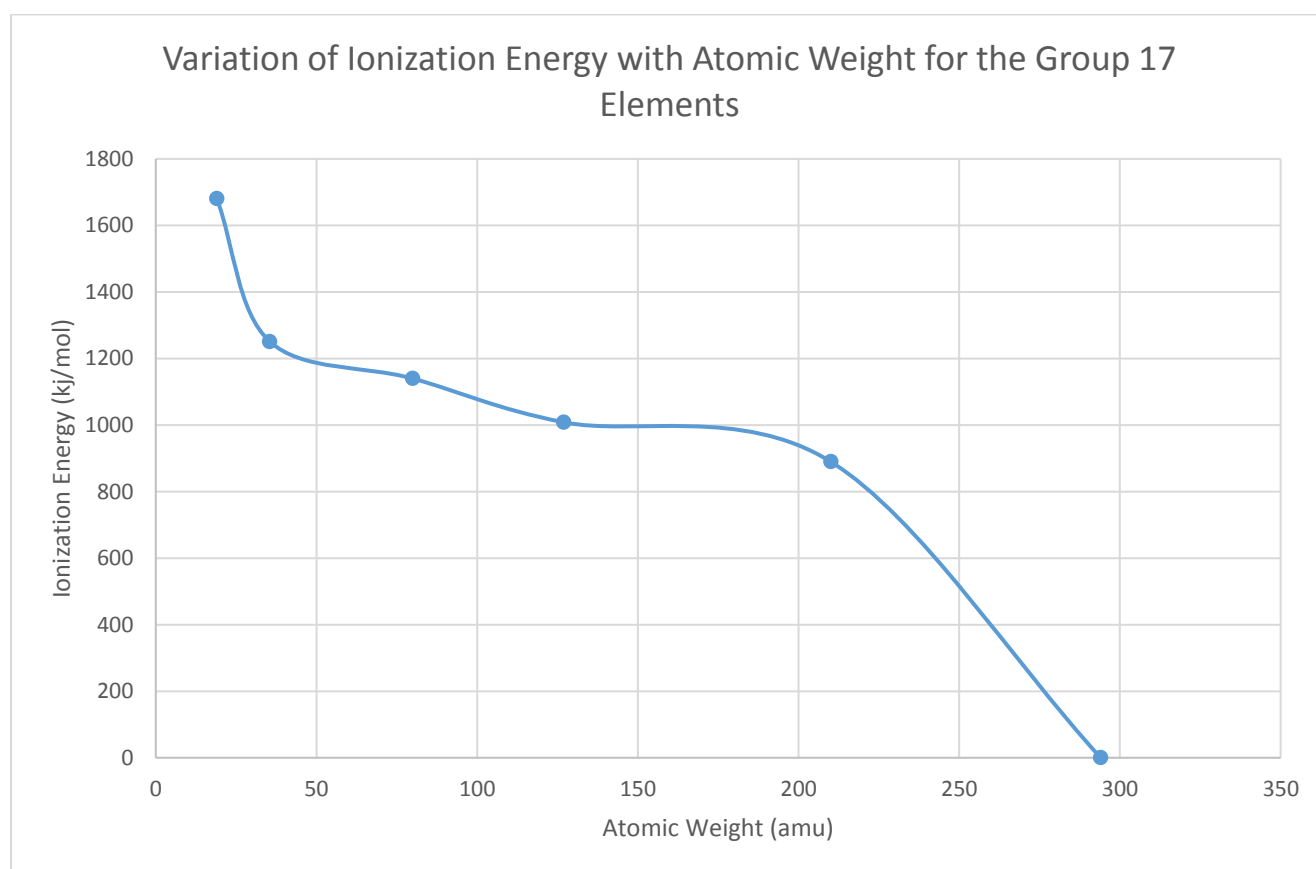


An investigation of the relationship between ionization energy and atomic weight for the Group 17 elements.

Table I: Atomic weight and Ionization energy of the Group 17 elements.

Element Symbol	Atomic Weight (amu)	Ionization Energy (kJ/mol)
F	18.998403163	1681.0 kJ/mol
Cl	35.45	1251.2 kJ/mol
Br	79.904	1139.9 kJ/mol
I	126.90447	1008.4 kJ/mol
At	210	890 kJ/mol
Ts	294	Unknown



There is a decrease in ionization energy of the Group 17 elements from F to Ts. Ionization energy decreases as you go down the periodic table, and this applies to Group 17.