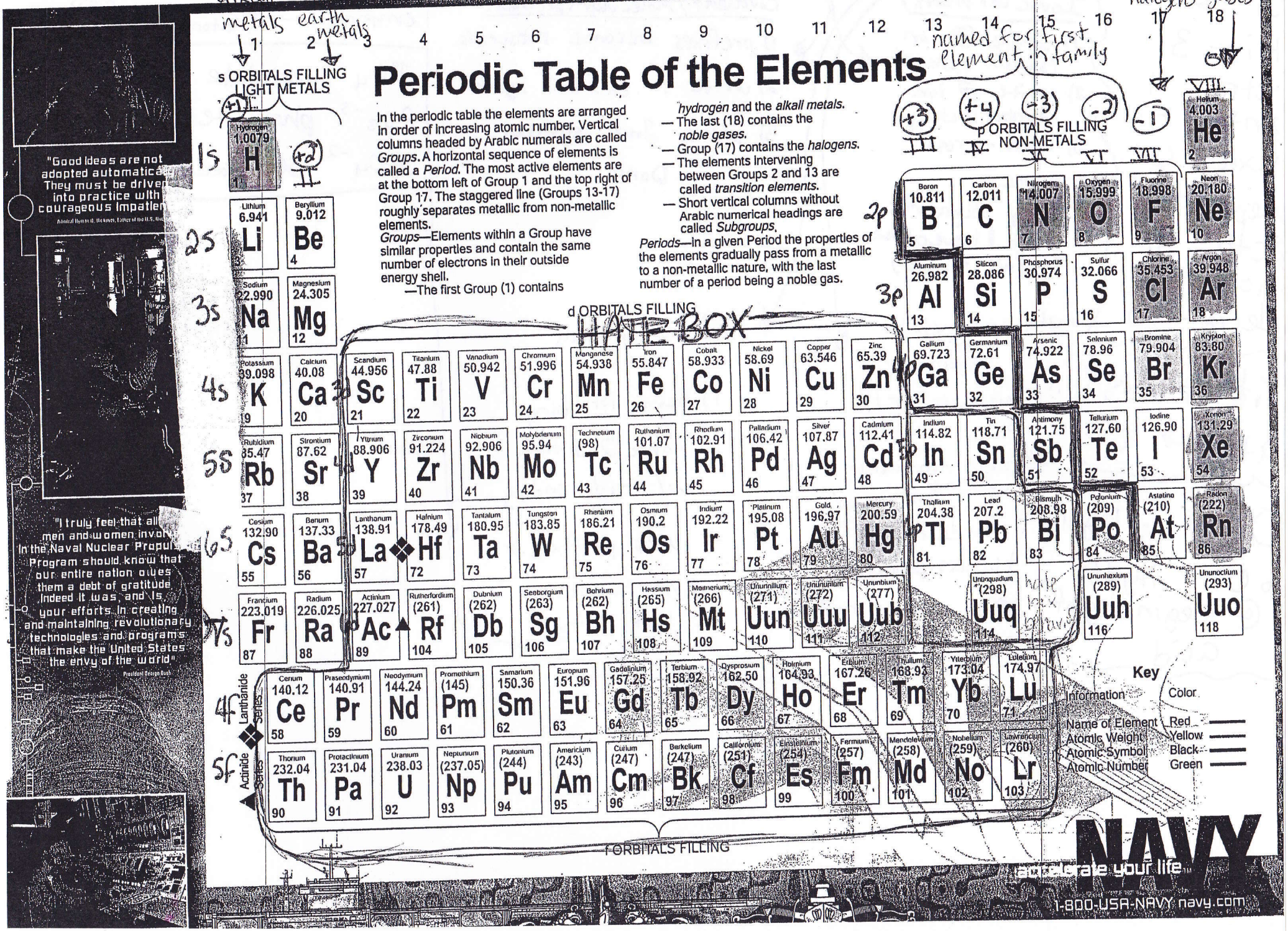
Periodic Table of the Elements
In the periodic table the elements are arranged in order of increasing atomic number. Vertical columns headed by Arabic numerals are called Groups. A horizontal sequence of elements is called a Period. The most active elements are at the bottom left of Group 1 and the top right of Group 17. The staggered line (Groups 13-17) roughly separates metallic from non-metallic elements.
Groups—Elements within a Group have similar properties and contain the same number of electrons in their outside energy shell.
—The first Group (1) contains hydrogen and the alkali metals.
— The last (18) contains the noble gases.
— Group (17) contains the halogens.
— The elements intervening between Groups 2 and 13 are called transition elements.
— Short vertical columns without Arabic numerical headings are called Subgroups.
Periods—In a given Period the properties of the elements gradually pass from a metallic to a non-metallic nature, with the last number of a period being a noble gas.
s ORBITALS FILLING LIGHT METALS
p ORBITALS FILLING NON-METALS
d ORBITALS FILLING
f ORBITALS FILLING
HATE BOX
Key
Information
Color
Name of Element
Atomic Weight
Atomic Symbol
Atomic Number
Red
Yellow
Black
Green
"Good ideas are not adopted automatica... They must be drive... into practice with... courageous impatien...
"I truly feel that all... men and women invo... in the Naval Nuclear Propul... Program should know that our entire nation owes them a debt of gratitude. Indeed it was, and is, your efforts in creating and maintaining revolutionary technologies and programs that make the United States the envy of the world."
President George Bush
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