

Chemistry Study Guide

The horizontal rows are called periods. 7 periods

The vertical columns are called groups. 18 groups

118 elements

The periodic table is arranged according to increasing atomic numbers.

There are 8 main groups in the periodic table:

Alkali metals:

- group 1
- very reactive
- silvery and soft
- nonmetals
- not found free in nature

Alkaline earth metals:

- group 2
- less reactive
- hard and dense
- high melting points
- not found free in nature

Transition metals:

- groups 3 to 12 (d-block)
- good conductors of electricity
- high luster
- less reactive
- can be found free in nature

Halogens:

- group 17
- most reactive of the nonmetals
- react strongly with metals to produce salts

Noble gases:

- group 8
- relatively unreactive because they have a full outer shell
- very low electronegativity



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