PETA KONSEP
CONCEPT MAP

JADUAL BERKALA UNSUR
THE PERIODIC TABLE OF ELEMENTS

mengikut pertambahan nombor proton
based on increasing proton number

Kedudukan Unsur
Positions of Elements

Baris mengufuk
Horizontal rows

Kumpulan
Groups

menuruni kumpulan
going down the groups

Sifat fizik
Physical properties

- **Logam**
  Metals
  - Saiz atom ↑
    Atomic size ↑
  - Takat lebur dan takat didih ↓
    Melting point and boiling point ↓
- **Bukan Logam**
  Non-metals
  - Saiz atom ↑
    Atomic size ↑
  - Takat lebur dan takat didih ↑
    Melting point and boiling point ↑
  - Ketumpatan ↑
    Density ↑

Sifat kimia
Chemical properties

- **Logam**
  Metals
  - Kereaktifan ↑
    Reactivity ↑
  - Jarak antara elektron valens dan nukleus ↑
    Distance between valence electrons and nucleus ↑
  - Daya tarikan dengan nukleus ↓
    Nuclear attraction force ↓
  - Keupayaan menderma elektron ↑
    Ability to donate electrons ↑
- **Bukan Logam**
  Non-metals
  - Kereaktifan ↓
    Reactivity ↓
  - Jarak antara elektron valens dan nukleus ↑
    Distance between valence electrons and nucleus ↑
  - Daya tarikan dengan nukleus ↓
    Nuclear attraction force ↓
  - Keupayaan menarik elektron ↑
    Ability to attract electrons ↑

Lajur menegak
Vertical columns

Kala
Periods

merentasi kala
across the periods

Sifat fizik
Physical properties

Logam → separa logam → bukan logam
Metal → semi-metal → non-metal

Sifat kimia
Chemical properties

Oksida bes → amfoterik → oksida asid
Basic oxide → amphoteric → acidic oxide

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