

Grade 8 - The Periodic Table

Name: _____ Class: _____ Date: _____

Atomic number

elements

groups

periods

Physical

chemical

protons

1. The periodic table is a chart that organizes _____ into rows and columns based on their _____ and _____ properties.

The periodic table displays elements organized by atomic number (increasing from left to right and top to bottom). The table includes the following elements:

- Period 1:** H (Hydrogen), He (Helium)
- Period 2:** Li (Lithium), Be (Beryllium), B (Boron), C (Carbon), N (Nitrogen), O (Oxygen), F (Fluorine), Ne (Neon)
- Period 3:** Na (Sodium), Mg (Magnesium), Al (Aluminum), Si (Silicon), P (Phosphorus), S (Sulfur), Cl (Chlorine), Ar (Argon)
- Period 4:** K (Potassium), Ca (Calcium), Sc (Scandium), Ti (Titanium), V (Vanadium), Cr (Chromium), Mn (Manganese), Fe (Iron), Co (Cobalt), Ni (Nickel), Cu (Copper), Zn (Zinc), Ga (Gallium), Ge (Germanium), As (Arsenic), Se (Selenium), Br (Bromine), Kr (Krypton)
- Period 5:** Rb (Rubidium), Sr (Strontium), Y (Yttrium), Zr (Zirconium), Nb (Niobium), Mo (Molybdenum), Tc (Technetium), Ru (Ruthenium), Rh (Rhodium), Pd (Palladium), Ag (Silver), Cd (Cadmium), In (Indium), Sn (Tin), Sb (Antimony), Te (Tellurium), I (Iodine), Xe (Xenon)
- Period 6:** Cs (Cesium), Ba (Barium), La (Lanthanum), Hf (Hafnium), Ta (Tantalum), W (Tungsten), Re (Rhenium), Os (Osmium), Ir (Iridium), Pt (Platinum), Au (Gold), Hg (Mercury), Tl (Thallium), Pb (Lead), Bi (Bismuth), Po (Polonium), At (Astatine), Rn (Radon)
- Period 7:** Fr (Francium), Ra (Radium), Ac (Actinium), Th (Thorium), Pa (Protactinium), U (Uranium), Np (Neptunium), Pu (Plutonium), Am (Americium), Cm (Curium), Bk (Berkelium), Cf (Californium), Es (Einsteinium), Fm (Fermium), Md (Mendelevium), No (Nobelium), Lr (Lawrencium)

2. _____ are horizontal (أفقي) rows numbered 1 to 7.

3. _____ are vertical (عمودي) columns numbered 1 to 18.

4. Henry Moseley organized the elements by increasing _____.

5. Atomic number is the number of _____.