

Periodic Table

The figure displays a periodic table of elements, organized by atomic number (1 to 118) and grouped into periods (rows) and groups (columns). The table includes the following information for each element:

- Atomic Number:** Indicated by a small number in the top left corner of the element box.
- Symbol:** The chemical symbol, represented by a large letter (e.g., H, O, Fe).
- Name:** The full name of the element (e.g., Hydrogen, Oxygen, Iron).
- Atomic Mass:** A numerical value representing the average mass of the element's isotopes (e.g., 1.0, 16.0, 55.8).
- State:** Indicated by a small icon in the top right corner of the element box:
 - Solid:** Represented by a solid black square.
 - Liquid:** Represented by a square with a diagonal line.
 - Gas:** Represented by an open square.
- Category:** Indicated by a small icon in the bottom right corner of the element box:
 - Metal:** Represented by a solid black square.
 - Metalloid:** Represented by a square with a diagonal line.
 - Non-metal:** Represented by an open square.

Key callouts and details include:

- Hydrogen (H):** Atomic number 1, atomic mass 1.0, solid state, metal category.
- Oxygen (O):** Atomic number 8, atomic mass 16.0, gas state, non-metal category.
- Legend:** Located in the top right, defining the state and category icons.
- Periods:** Labeled 1 through 7 on the left side of the table.
- Groups:** Labeled 1 through 18 at the top of the table.
- Unlabeled Elements:** Elements with atomic numbers 119 through 118 are shown at the bottom, including Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, and Lr.