

Getting To Know the Periodic Table

Objective: To be able to use the periodic table to identify and classify elements and to use the periodic table to predict the behavior of elements

Procedure:

1. Number the groups.
2. Number the periods
3. Draw a heavy lack line between the metals and nonmetals.
4. Write the name of each of the following groups above the number:
Group 1 alkali metals
Group 2 alkaline earth metal
Group 3-12 (collectively) transition metals
Group 16 chalcogens
Group 17 halogens
Group 18 Noble gases
5. Write the names of the two rows at the bottom of the chart: lanthanides and actinides
6. Write the symbol of each element that exists as a gas at ordinary conditions in RED.
7. Write the symbol of each element that is a solid at ordinary conditions in BLACK.
8. Write the symbol of each element that is a liquid at ordinary condition in BLUE.
9. Write the symbol of each element that is a man-made element as an outline. Example: **Pm**
10. Place the atomic number for each element above the symbol.
11. Use the following chart to color the periodic table.

Halogen	blue
Noble gases	yellow
Alkali metals	purple
Alkaline earth metals	red
Transition elements	green
Chalcogens	brown
Lanthanides	orange
Actinides	light blue
12. Outline the symbol's box in dark green if it is RADIOACTIVE in its most common form.

Periodic Table Worksheet

The diagram illustrates a 2D grid of squares, likely representing a net for a 3D shape. The grid is composed of several connected rectangular sections. A dashed line runs vertically through the middle of the grid, suggesting a fold line. The grid is composed of several connected rectangular sections. A dashed line runs vertically through the middle of the grid, suggesting a fold line.

KEY:

RED {GAS}

H, He, N, O, F, Ne, Cl, Ar, Kr, Xe, Rn, Sm, Eu, Gd

BLUE {LIQUID}

Ga, Br, Cs, Hg, Fr

GREEN {RADIOACTIVE}

Tc, Po, At, Rn, Fr, Ra, Rf, Ha, La, Ce, Pr, Nd, Pm, Ac, Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr

OUTLINE {SYNTHETIC}

Tc, Pm, Np, Pu, Am, Cm, Bk, Cr, Es, Fm, Md, No, Lr

BLACK {SOLID}

Li, Be, B, C, Na, Mg, Al, Si, P, S, K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ge, As, Se, Rb, Sr, Y, Zr, Nb, Mo, Ru, Rh, Pd, Ag, Cd, In, Sn, Sb, Te, I, Ba, Hf, Ta, W, Re, Os, Ir, Pt, Au, Tl, Pb, Bi, Po, At, Ra, Rf, Ha, Sg, Bh, Hs, Mt, Tb, Dy, Ho, Er, Tm, Yb, Lu, Uun, Uuu, Uub