

Make Your Own Periodic Table Worksheet

You've heard how the periodic table was invented and had a chance to make one in class. Now that you're a pro at classifying elements, you get a chance to make your very own periodic table using real elements. If you do this correctly, your classification scheme should be the same as the actual periodic table.

Unfortunately, you're not going to be given the names of the elements or a complete list of their properties. Using partial information (such as scientists had in the old days), see if you can arrange these real elements into their proper periods and families. One hint: These elements should be arranged into a grid that's three boxes tall by four boxes wide, with no blank spaces.

In no particular order:

Element 1: Solid, metal, does not corrode in air, density = 1.85 g/mL.

Element 2: Yellow gas, highly dangerous to handle, toxic in low doses.

Element 3: White, shiny, metallic solid, reacts slightly in air, density = 1.55 g/mL.

Element 4: Colorless gas, stable in air, forms very few chemical compounds.

Element 5: White, shiny metallic solid, unreactive, good electrical conductor, ductile, density = 10.5 g/mL.

Element 6: Orange-red metallic solid, ductile, density = 8.9 g/mL.

Element 7: White metallic solid, reacts easily in air, density = 3.5 g/mL.

Element 8: Colorless gas, unreactive with any element.

Element 9: Red nonmetallic liquid, irritates skin and lungs.

Element 10: Colorless gas, denser than air, forms no chemical compounds.

Element 11: Radioactive metalloid, very little known about its properties.

Element 12: Yellow metallic solid, extremely malleable, unreactive with most chemicals, density = 19.3 g/mL.

Good luck!