

Students Academy

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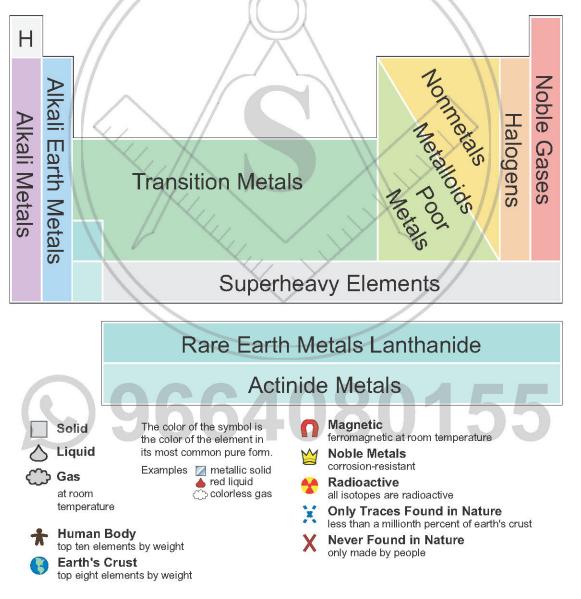
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Email : office.studentsacademy@gmail.com • Office Time : 9.00 am to 8.00 pm

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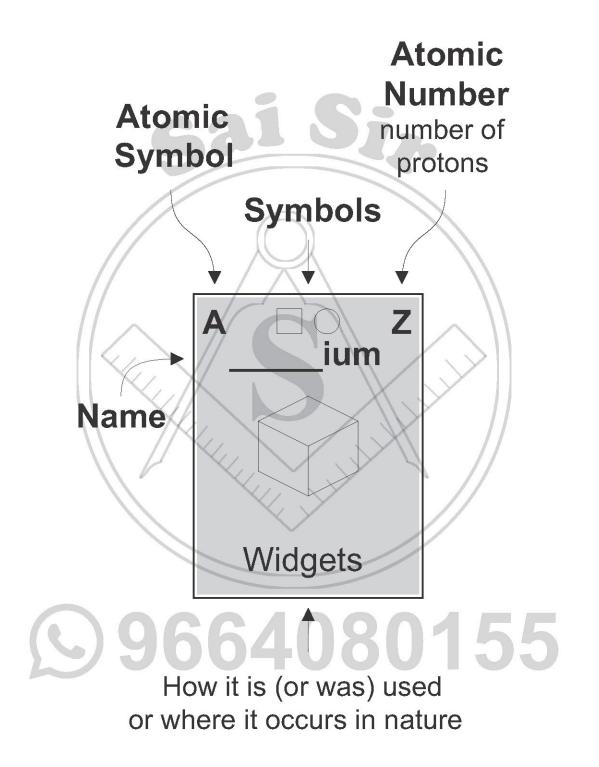


The Periodic Table of the Elements, in Pictures and Words

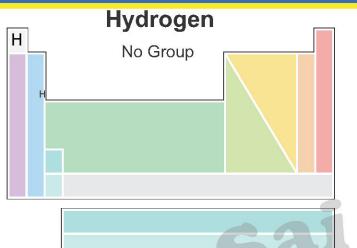


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Hydrogen belongs to no definite group. It forms compounds by either donating an electron like an alkali metal or accepting an electron like a halogen.

Alkali Earth Metals

Alkali Earth Metals

Alkali Metals are very reactive and readily form compounds but are not found free in nature. They form salts and alkali (acid-neutralizing) compounds such as baking soda. In pure form, they are very soft metals which catch fire on contact with water.

Halogens

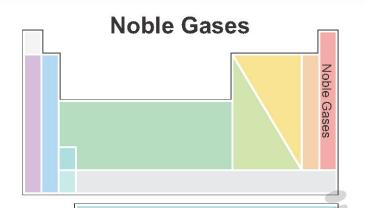


Alkali Earth Metals

are reactive and readily form compounds but are not found free in nature. Their oxides are called alkali earths. In pure form, they are soft and somewhat brittle metals. **Halogens**are reactive nonmetals and readily form compounds but are not found free in nature. They combine with alkali metals to form salts (halogen means salt-former).

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Noble Gases are inactive, or inert. Each atom has exactly the number of electrons it needs to have a full outer shell, so these atoms almost never bond with other atoms. That is why these are all gases.

Poor Metals

Transition Metals are

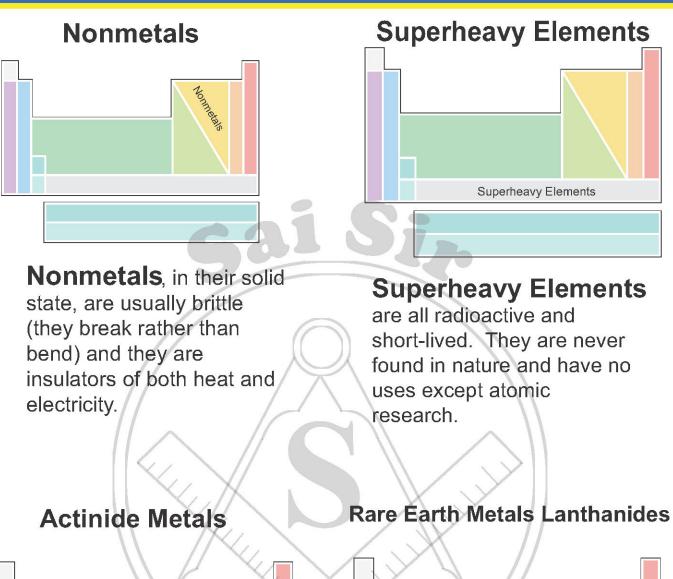
typical metals: they are strong, shiny, malleable (they can be hammered into shape), flexible (in thin sheets or wires), and they conduct both heat and electricity.

Metalloids

Poor Metals are usually soft and have low melting temperatures.

Metalloids are partly like metals and partly like nonmetals. For example, they are semiconductors, which means they conduct electricity in some conditions. B, Si, Ge, As, Sb, and Te are metalloids.

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Actinide Metals are all radioactive heavy metals. They are used mainly for their radioactive properties.

Rare Earth Metals

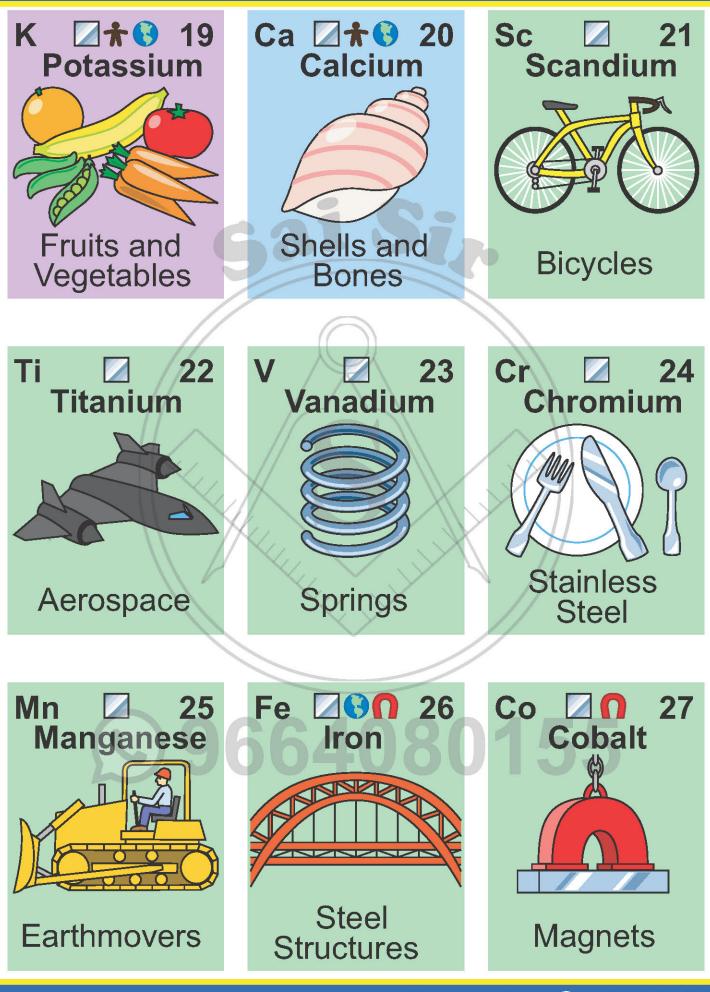
are all soft metals. They are chemically similar to scandium and yttrium and are difficult to separate from each other.



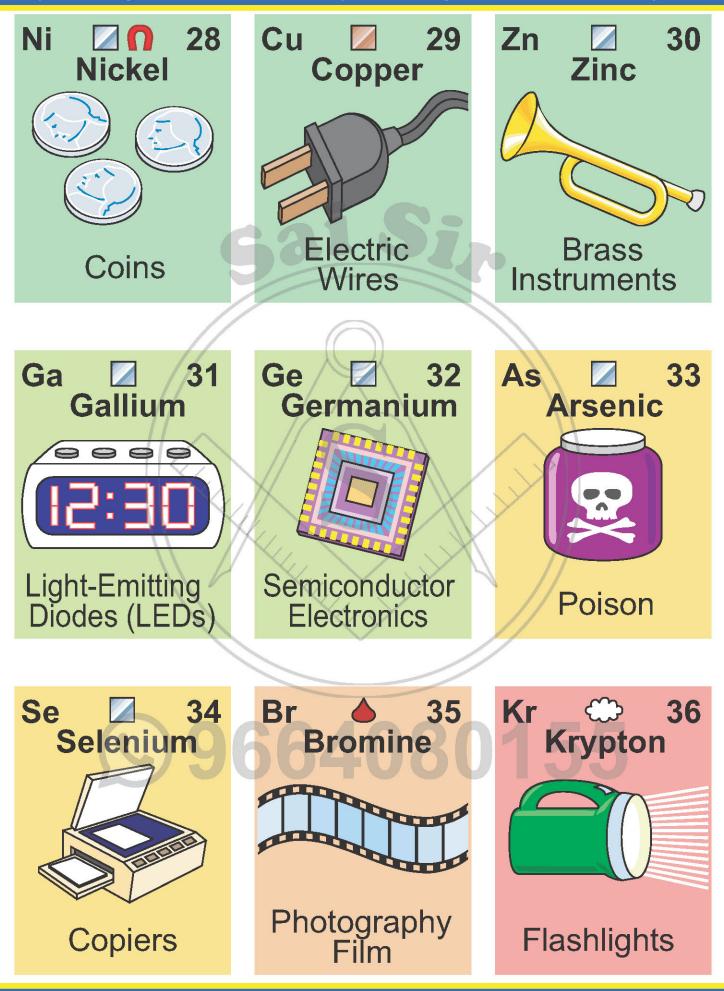
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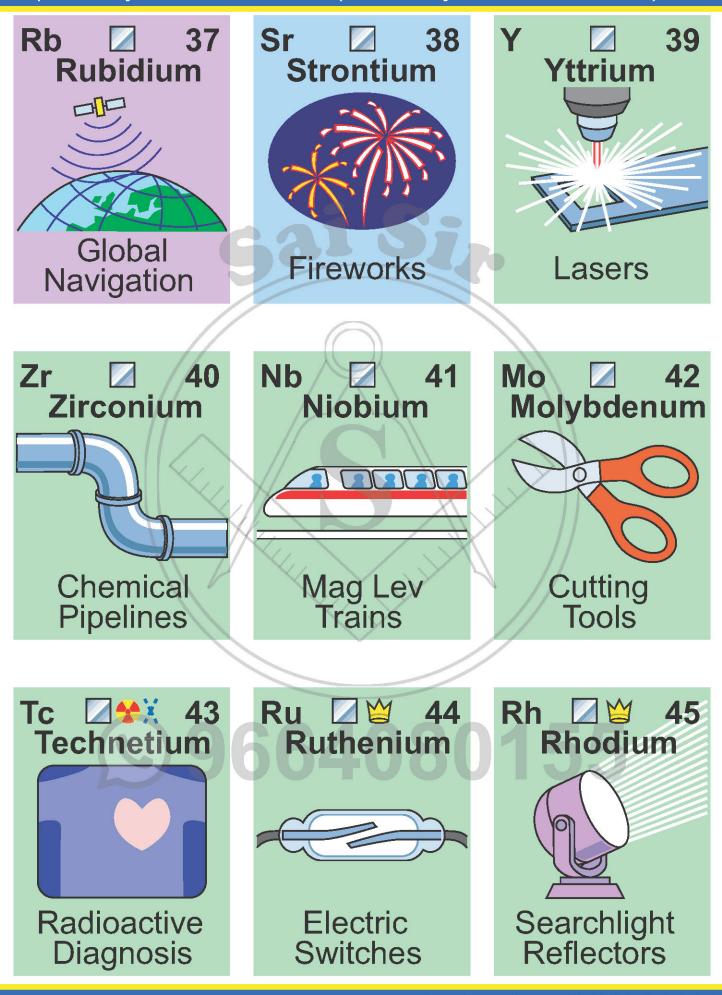
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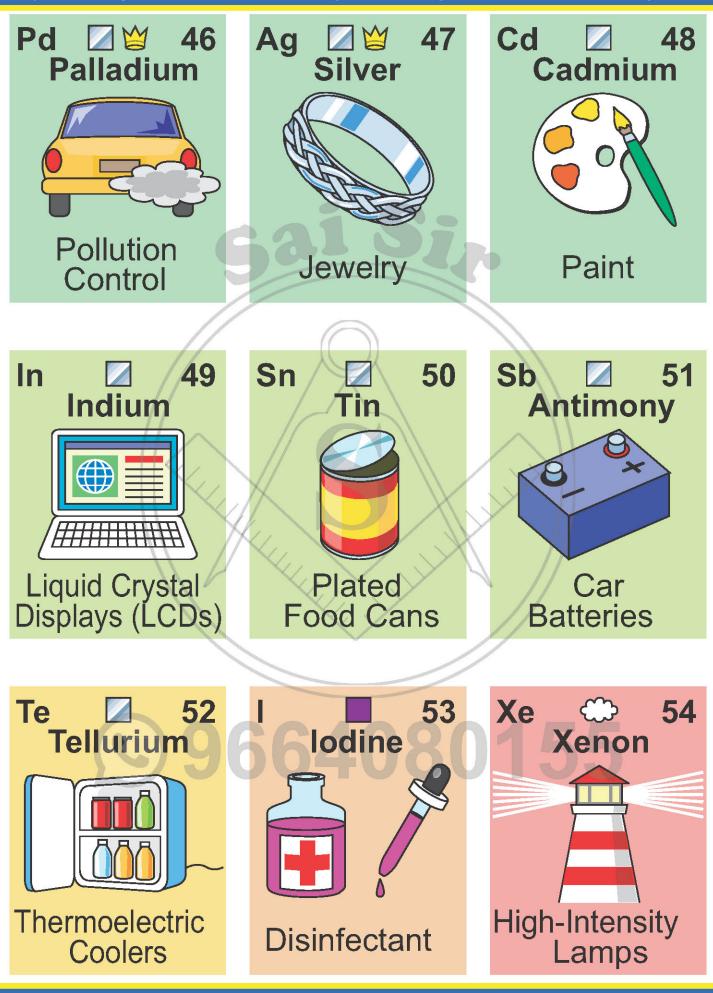
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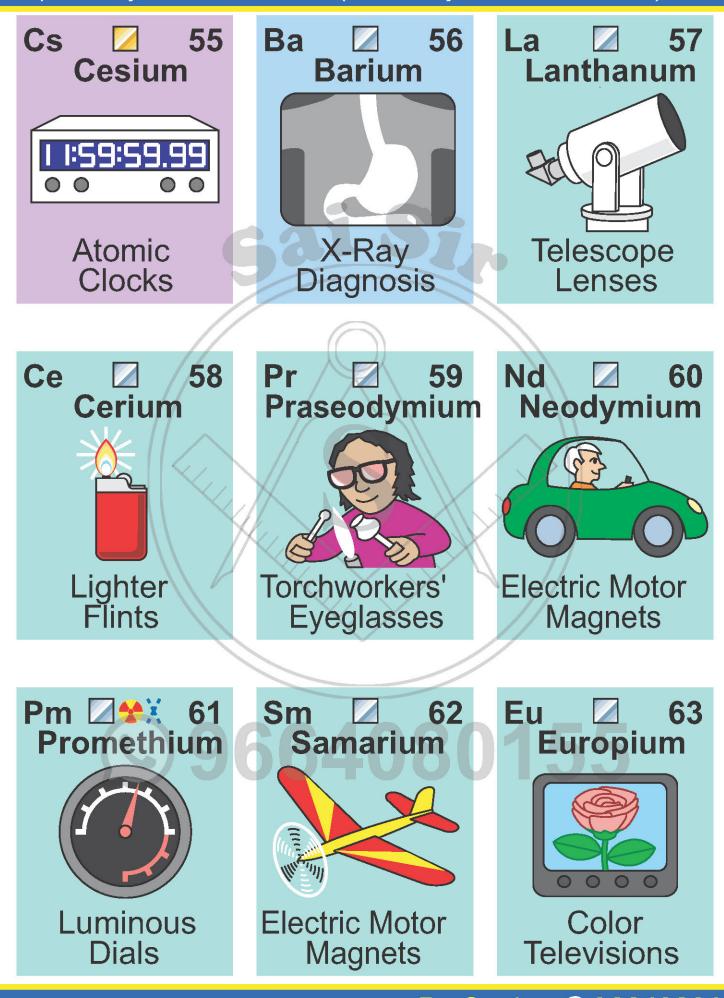
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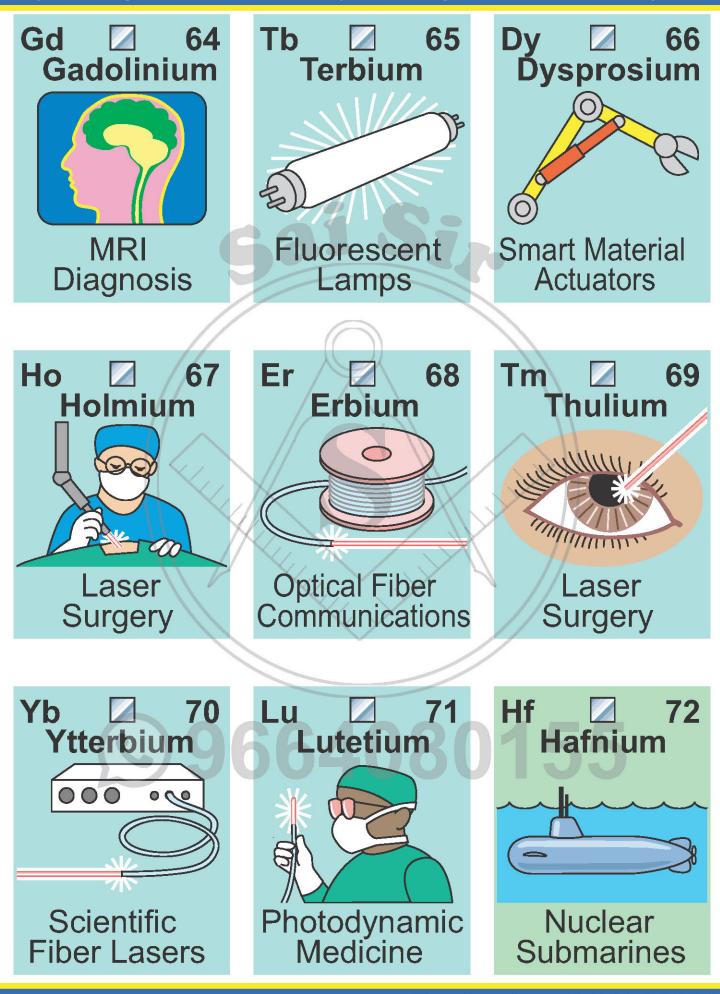
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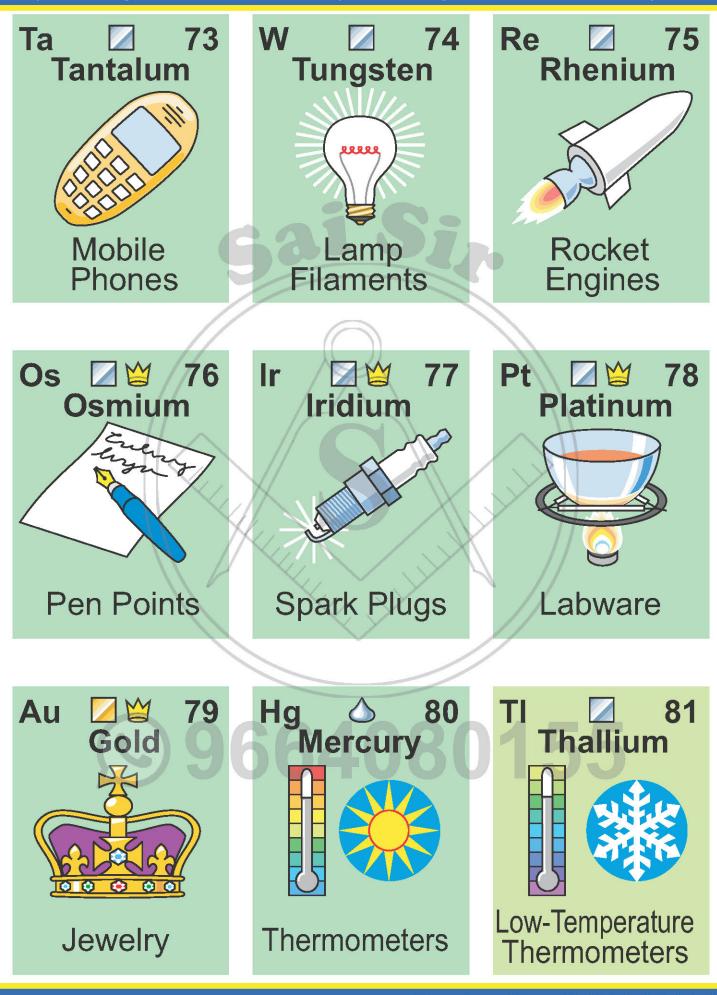
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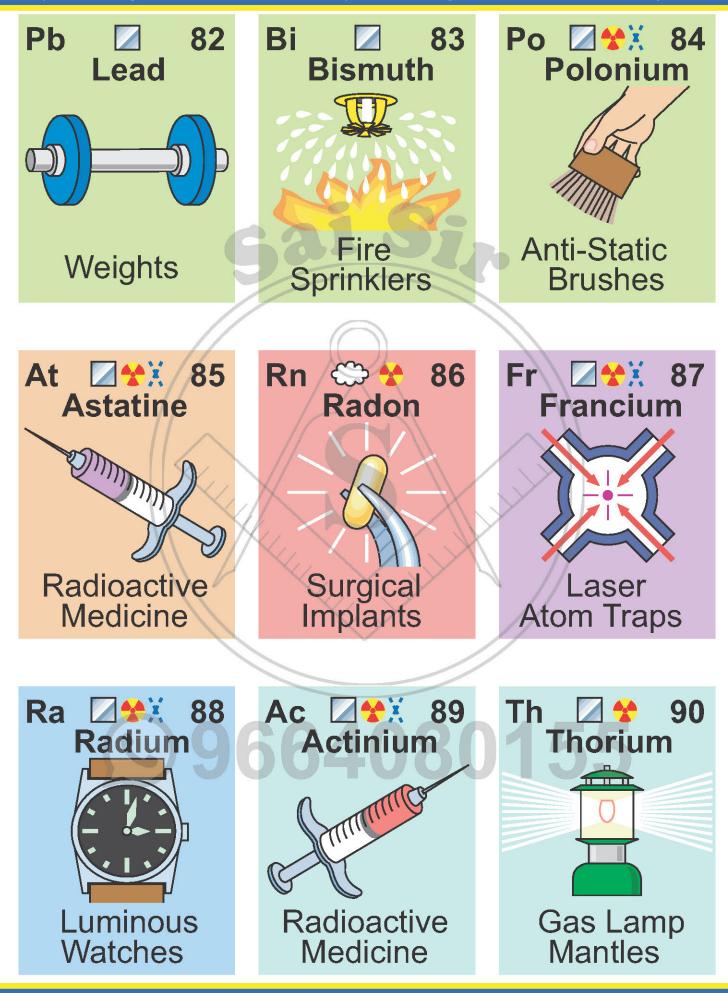
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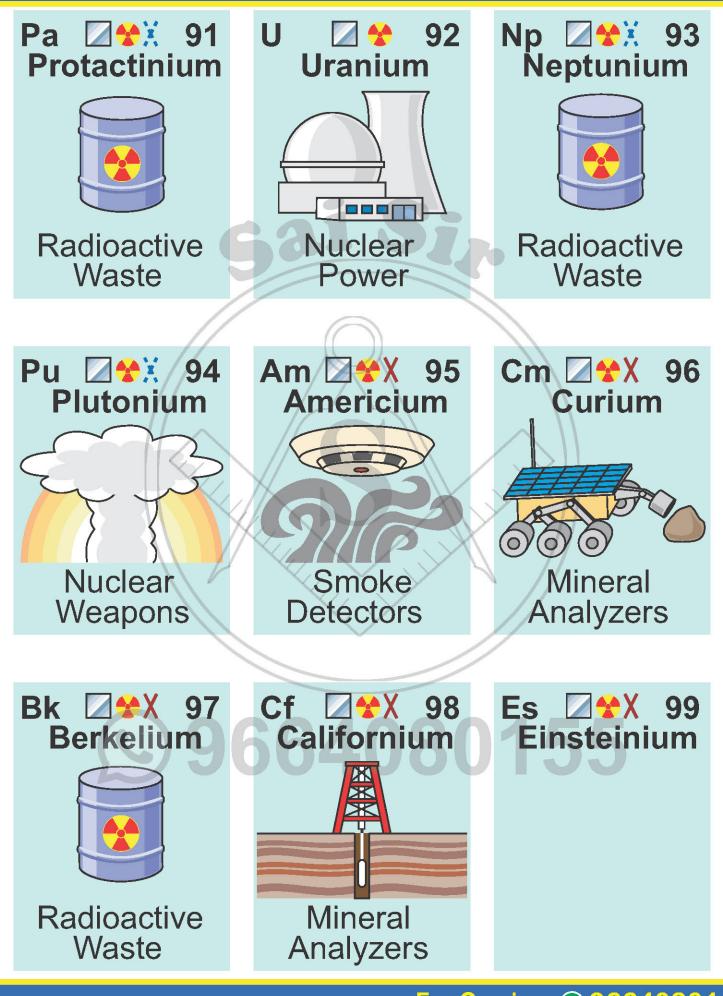
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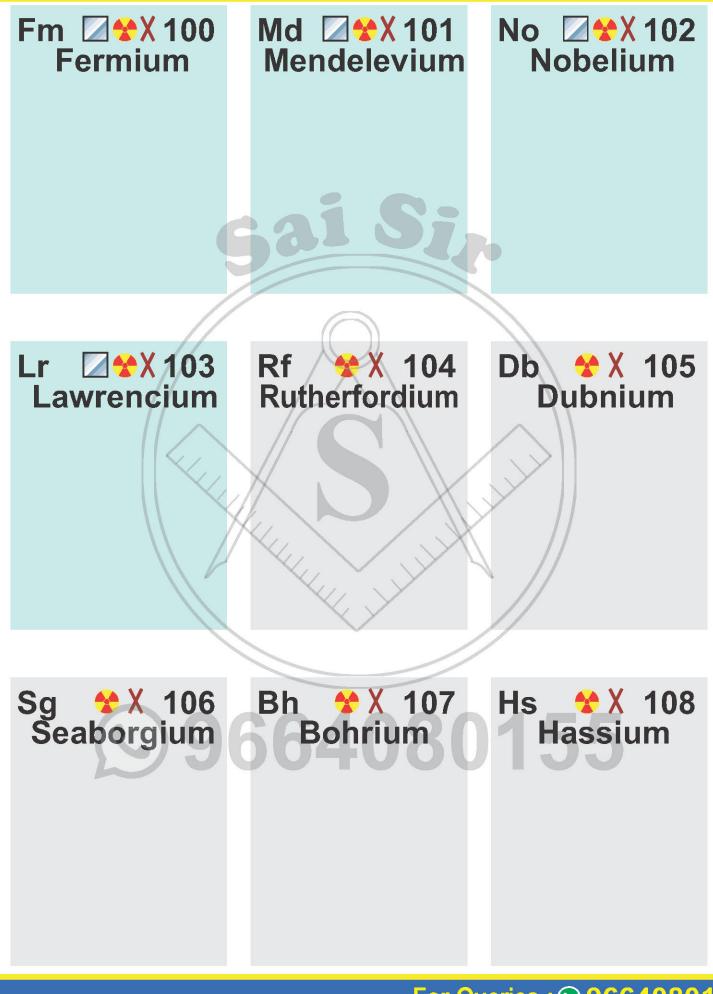
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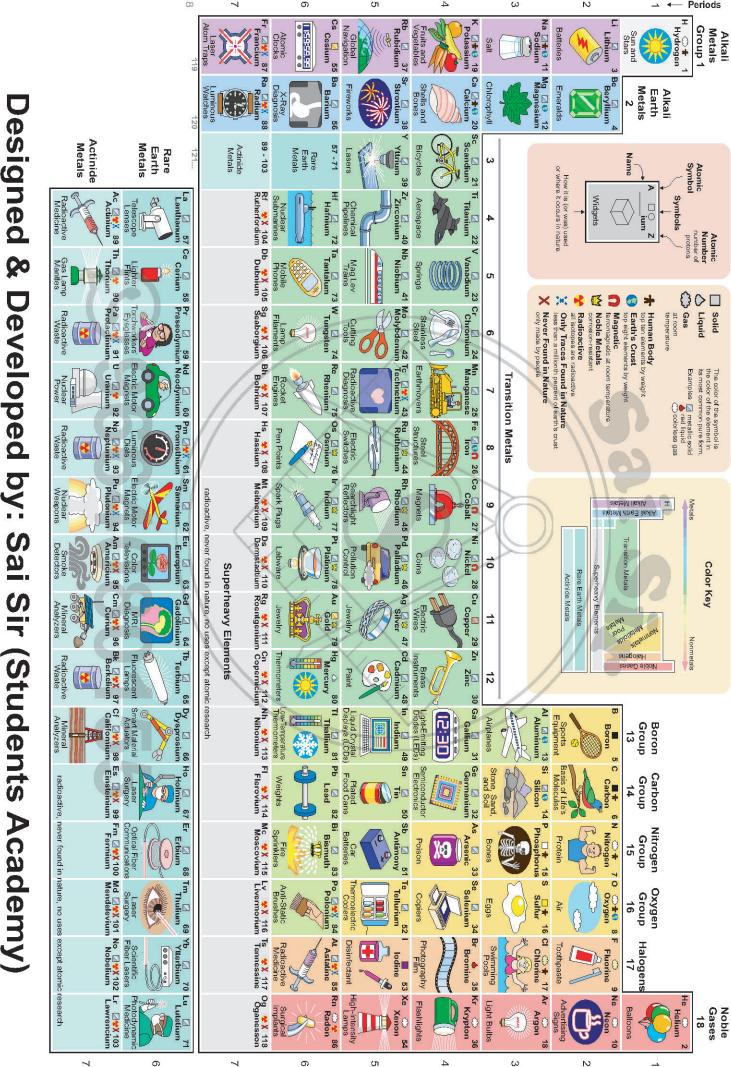
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The Periodic Table of the Elements, in Pictures