**THE PERIODIC TABLE: FAMILIES AND PERIODS**

The periodic table was organized by **DMETRI MENDELEEV**

Mendeleev was a Russian chemist and inventor!

**Organization**

* Vertical columns are called **FAMILES**
	+ Families share similar chemical and physical properties
* Horizontal rows are called **PERIODS**
	+ Each period represents an orbit or shell around the nucleus

Using the **INTERACTIVE PERIODIC TABLE,** explore the families!

<https://tinyurl.com/ptesci10>

1. **ALKALI METALS**

|  |
| --- |
| **Write the description for Alkali Metals** |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Name** | **Characteristics** | **Uses** |
| **Li** |  |  |  |
| **Na** |  |  |  |
| **K** |  |  |  |
| **Rb** |  |  |  |
| **Cs** |  |  |  |
| **Fr** |  |  |  |

**\*Reactivity increases as you go down the column!**

1. **ALKALINE EARTH METALS**

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| --- |
| **Write the description for Alkaline Earth Metals** |
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|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Name** | **Characteristics** | **Uses** |
| **Be** |  |  |  |
| **Mg** |  |  |  |
| **Ca** |  |  |  |
| **Sr** |  |  |  |
| **Ba** |  |  |  |
| **Ra** |  |  |  |

1. **TRANSITION METALS**

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| --- |
| **Write the description for Transition Metals** |
|  |

**CHOOSE YOUR TOP 3!**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Name** | **Characteristics** | **Uses** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. **METALLOIDS**

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| --- |
| **Write the description for Transition Metals** |
|  |

**CHOOSE YOUR TOP 3!**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Name** | **Characteristics** | **Uses** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. **NON-METALS**

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| --- |
| **Write the description for Non-metals** |
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|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Name** | **Characteristics** | **Uses** |
| **C** |  |  |  |
| **N** |  |  |  |
| **O** |  |  |  |
| **P** |  |  |  |
| **S** |  |  |  |
| **Se** |  |  |  |

1. **HALOGENS**

|  |
| --- |
| **Write the description for Halogens** |
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|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Name** | **Characteristics** | **Uses** |
| **F** |  |  |  |
| **Cl** |  |  |  |
| **Br** |  |  |  |
| **I** |  |  |  |
| **At** |  |  |  |

**\*reactivity decreases as you go down the column, making fluorine the most reactive!**

**7. NOBLE GASES**

|  |
| --- |
| **Write the description for Noble Gases** |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Name** | **Characteristics** | **Uses** |
| **He** |  |  |  |
| **Ne** |  |  |  |
| **Ar** |  |  |  |
| **Kr** |  |  |  |
| **Xe** |  |  |  |
| **Rn** |  |  |  |

1. **HYDROGEN**

|  |
| --- |
| **Write the description for Hydrogen** |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Name** | **Characteristics** | **Uses** |
| **H** |  |  |  |

