

Virtual Lab: The Periodic Table

Objectives:

- 1.
- 2.
- 3.

Data:

| Family Data | | | | |
|----------------|--------------|---------------|--|-----------------|
| Element Symbol | Element Name | Atomic Number | Atomic Mass (rounded to nearest whole number) | State of Matter |
| Helium | | | | |
| Neon | | | | |
| Argon | | | | |
| Krypton | | | | |
| Xenon | | | | |
| Radon | | | | |

| Period Data | | | | |
|----------------|--------------|---------------|--|-----------------|
| Element Symbol | Element Name | Atomic Number | Atomic Mass (rounded to nearest whole number) | State of Matter |
| | Na | | | |
| | Mg | | | |
| | Al | | | |
| | Si | | | |
| | P | | | |
| | S | | | |
| | Cl | | | |
| | Ar | | | |

| Four Random Elements that are NOT in Charts Above! | | | | |
|---|--------------|---------------|--|-----------------|
| Element Symbol | Element Name | Atomic Number | Atomic Mass (rounded to nearest whole number) | State of Matter |
| | | | | |
| | | | | |
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Analysis/Conclusion:

1. Based on the background information in this virtual lab, who is Dmitri Mendeleev?
2. How do the elements in the family compare?
3. How do the elements in the PERIOD compare?
4. What happens to the number of protons as you go across the row?
5. How do the masses of your four random elements relate?
6. In your own words explain how the periodic table is arranged?