**Elements and the Periodic Table**

1. **Elements**
	1. Made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Found on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Classes of Elements on the Periodic Table
	1. **Metals**
		1. **Physical Properties**
			1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of heat and electricity
			2. Shiny
			3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			4. Most metals are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at room temperature
		2. **Chemical Properties**
			1. Water causes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			2. Tend to \_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
		3. Found on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ side of the periodic table
		4. Examples:
	2. **Non-metals**
		1. **Physical Properties**
			1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of heat and electricity
			2. Solids are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_
			3. Many are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. **Chemical Properties**
			1. Tend to \_\_\_\_\_\_\_\_\_ electrons
		3. Found on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ side of the periodic table
		4. Examples:
	3. **Metalloids**
		1. Physical Properties
			1. Properties of both \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: Conduct heat and electricity better than non-metals, but not as well as metals
			3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. **Chemical Properties**
			1. Can \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
		3. Found along the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the periodic table
		4. Examples:
3. Groups/Families **(\* = know this group/family)**
	* + 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
				1. Has \_\_\_\_ electron
				2. Very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gas
			2. Group 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
				1. \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ metals
				2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electron
				3. Very reactive with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			3. Group 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ metals
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	* + 1. Group 3-12: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
				1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of heat and electricity
				2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
				3. Electrons vary
			2. Group 13: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Family
				1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
			3. Group 14: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Family
				1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
			4. Group 15: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Family
				1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
			5. Group 16: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Family
				1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
			6. Group 17: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
				1. Most are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
				2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electron or \_\_\_\_\_\_\_\_\_\_\_\_\_
				3. Very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
				4. React with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			7. Group 18: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
				1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (inert)
				2. Does not \_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_ electrons
				3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gas
			8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
				1. At the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the Periodic Table
				2. Composed of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_