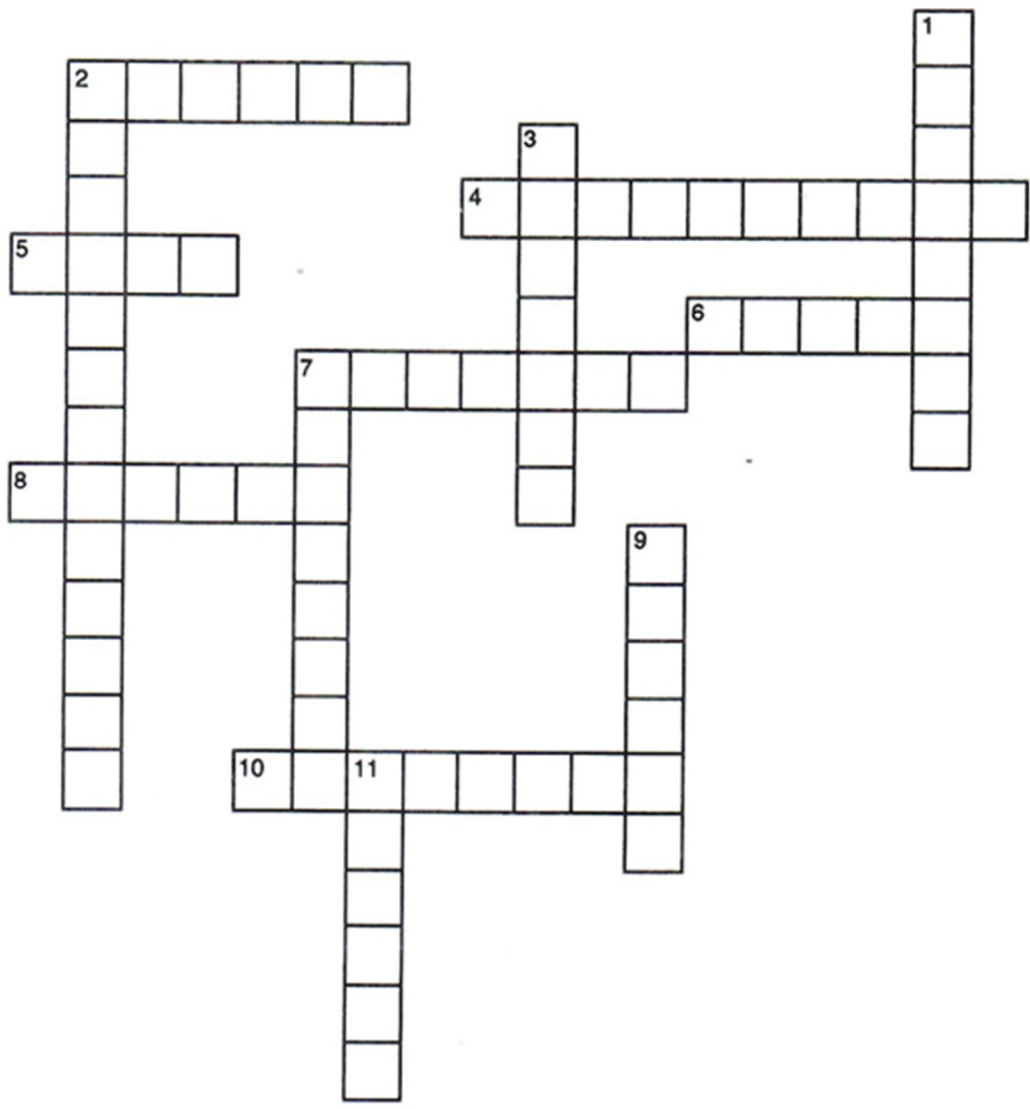


**TEKS: 5A**-Explain the use of chemical and physical properties in the historical development of the periodic table; **5B**-Use the Periodic Table to *identify* and *explain* the properties of chemical families, including alkali metals, alkaline earth metals, halogens, noble gases, and transition metals; **5C**-Use the Periodic Table to *identify* and *explain* periodic trends, including atomic and ionic radii, electronegativity, and ionization energy.



**Word Bank:**  
 AlkalineEarth  
 Positive  
 Halogens  
 Periods  
 Protons  
 Number  
 Groups  
 Mass  
 Negative  
 Noble  
 Transition  
 Metals  
 Alkali

**Across**

- 2. Group I metals
- 4. Elements in the middle of the periodic table are the \_\_\_\_ metals.
- 5. The sum of the protons and neutrons is the \_\_\_\_ number.
- 6. Inactive gases.
- 7. The horizontal rows are called \_\_\_\_.
- 8. Most of the elements are \_\_\_\_.
- 10. Nonmetals tend to form \_\_\_\_ ions.

**Down**

- 1. Most active nonmetals
- 2. Group II metals
- 3. Atomic number is the number of \_\_\_\_.
- 7. Metals tend to form \_\_\_\_ ions.
- 9. The elements are arranged by atomic \_\_\_\_.
- 11. The vertical columns are called families or \_\_\_\_.

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

<b>Title: Periodic Table Puzzle</b>	Video: 5.1-5.2	Textbook: Ch. 5
<b>TEKS: 5A</b> -Explain the use of chemical and physical properties in the historical development of the periodic table; <b>5B</b> -Use the Periodic Table to <i>identify</i> and <i>explain</i> the properties of chemical families, including alkali metals, alkaline earth metals, halogens, noble gases, and transition metals; <b>5C</b> -Use the Periodic Table to <i>identify</i> and <i>explain</i> periodic trends, including atomic and ionic radii, electronegativity, and ionization energy.		

In the periodic table below, each labeled element represents a location on the periodic table and is not an actual element symbol. Match each location on the table with the statements below. Each location can only be used once.

I																		
	F														G	H		
													B				A	
C										E				J				

		D															

1. \_\_\_\_\_ An alkali metal.
2. \_\_\_\_\_ An alkaline earth metal.
3. \_\_\_\_\_ An inactive gas.
4. \_\_\_\_\_ An active nonmetal.
5. \_\_\_\_\_ A metalloid.
6. \_\_\_\_\_ An inner transition element.
7. \_\_\_\_\_ Oxidation state (or charge) is -2.
8. \_\_\_\_\_ A metal with more than one oxidation state (charge).
9. \_\_\_\_\_ A metal with an oxidation number (charge) of +3.
10. \_\_\_\_\_ A nonmetal with oxidation numbers (charges) of +1 or -1.