

The Periodic Table Worksheet

This worksheet is to be used to go along with the corresponding reading.

Use the following table and legend to answer the questions to the best of your ability.

1																	2						
3	4											5	6	7	8	9	10						
11	12																	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36						
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86						
87	88	89	104	105	106	107	108	109	110														

58	59	60	61	62	63	64	65	66	67	68	69	70	71
90	91	92	93	94	95	96	97	98	99	100	101	102	103

Legend

Li Solid	Cs Liquid	Ar Gas	Nd Synthetic
Alkali metals	Alkali earth metals	Transition metals	Rare earth metals
Other metals	Noble gases	Halogens	Other nonmetals

1. The periodic table is defined as _____

2. _____ are substances that cannot be broken down into simpler stuff by any chemical means.

3. Dmitri Mendeleev was a _____ scientist who set up the periodic table in the _____ century.

4. Using Mendeleev's system elements with similar _____
_____ properties fell into families or groups.

5. Families or groups are designated by what? _____

6. Elements on the periodic table are usually identified with three things. What are they?

7. Protons are found in the _____ of an atom.

8. Metals are found on the _____ side of the table, while the nonmetals are found on the _____ side of the table.

9. An element that is an alkali metal is _____.

10. Helium (He) is a _____.

11. There are two rows of elements on the bottom of the table. These elements are the rare earth metals. What is the name given to each of these rows of elements?

12. Name two elements in group VIIA.

Answers to the worksheet

1. The periodic table is defined as **an organization of the elements in order of increasing atomic number and grouped according to similar chemical properties and similar electron arrangements.**
2. **Elements** are substances that cannot be broken down into simpler stuff by any chemical means.
3. Dmitri Mendeleev was a **Russian** scientist who set up the periodic table in the **nineteenth** century.
4. Using Mendeleev's system elements with similar **physical and chemical** properties fell into families or groups.
5. Families or groups are designated by what? **Vertical columns**
6. Elements on the periodic table are usually identified with three things. What are they?
Symbol
Atomic number
Atomic weight
7. Protons are found in the **nucleus** of an atom.
8. Metals are found on the **left-hand** side of the table, while the nonmetals are found on the **right-hand** side of the table.
9. An element that is an alkali metal is **lithium, sodium, potassium, rubidium, cesium, or francium.**
10. Helium (He) is a noble **gas.**
11. There are two rows of elements on the bottom of the table. These elements are the rare earth metals. What is the name given to each of these rows of elements?
Lanthanides
Actinides
12. Name two elements in group VIIA. **Fluorine, chlorine, bromine, iodine, or astatine**