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Crash Course Chemistry #4: The Periodic Table

Name: _____ Date: _____

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1. The _____ is a concise, information-dense catalog of all the different sorts of atoms in the universe.
2. Mendeleev sorted elements by their _____ but focused more on periodic properties.
3. Characteristics of elements seemed to repeat every seven elements, showing a pattern of _____.
4. The _____ had not yet been discovered in the 1860s, affecting how periodicity was seen.
5. Mendeleev inserted _____ into his table for elements not yet discovered.
6. Alkali metals are highly reactive and form a positive ion, also known as a _____.
7. The alkali metals must be stored in _____ gases or oil to prevent reactions with air.
8. Alkaline earth metals form _____ with a charge of +2.
9. The middle section of the periodic table is made up of _____, like iron and gold.
10. _____ are excellent conductors of electricity and are malleable.
11. Halogens are reactive gases that form negative ions, also called _____.
12. The _____ and _____ series are usually separated from the table due to formatting, though they belong in it.
13. Mendeleev's table was first published as part of a _____ to make money.
14. The periodicity of elements is now known to be a function of _____.
15. Mendeleev did not believe in atoms and denied the existence of things he couldn't see, including _____.

Crash Course Chemistry #4: The Periodic Table KEY

1. The **periodic table** is a concise, information-dense catalog of all the different sorts of atoms in the universe.
2. Mendeleev sorted elements by their **atomic weights** but focused more on periodic properties.
3. Characteristics of elements seemed to repeat every seven elements, showing a pattern of **periodicity**.
4. The **noble gases** had not yet been discovered in the 1860s, affecting how periodicity was seen.
5. Mendeleev inserted **gaps** into his table for elements not yet discovered.
6. Alkali metals are highly reactive and form a positive ion, also known as a **cation**.
7. The alkali metals must be stored in **inert** gases or oil to prevent reactions with air.
8. Alkaline earth metals form **cations** with a charge of +2.
9. The middle section of the periodic table is made up of **transition metals**, like iron and gold.
10. **Metals** are excellent conductors of electricity and are malleable.
11. Halogens are reactive gases that form negative ions, also called **anions**.
12. The **lanthanide** and **actinide** series are usually separated from the table due to formatting, though they belong in it.
13. Mendeleev's table was first published as part of a **chemistry textbook** to make money.
14. The periodicity of elements is now known to be a function of **electrons**.
15. Mendeleev did not believe in atoms and denied the existence of things he couldn't see, including **electrons**.

15 Questions

Answer Key Included

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