

Periodic Table Homework

A. Select the best answer for each of the questions that follow:

1. When was the periodic table invented?

- a. 1859
- b. 1864
- c. 1869
- d. 1954

2. Who produced the first version of the periodic table?

- a. Dmitry Mendeleev
- b. Lothar Meyer
- c. Henry Moseley
- d. John Newlands

3. Who classified the known elements into eight groups?

- a. Dmitry Mendeleev
- b. Lothar Meyer
- c. Henry Moseley
- d. John Newlands

4. How did Newlands classify the elements?

- a. By their properties
- b. By their mass
- c. By their weight
- d. By alphabetical order

5. How did Moseley re-sequence the periodic table?

- a. By increasing size
- b. By increasing atomic weight
- c. By increasing atomic number
- d. By properties

6. The elements calcium, strontium and barium were grouped together because:

- a. They were all shiny
- b. They were all metals
- c. They were good conductors of heat and electricity
- d. All of the above.

7. Chemical properties can be defined as:

- a. Aspects which a group of elements have in common
- b. The way that elements behave in a chemical reaction
- c. The appearance of elements.
- d. The relationship between different elements.

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8. **A box on the periodic table represents:**
- An element
 - A compound
 - A molecule of an element
 - An atom
9. **What information is not always found in a box on the periodic table?**
- The elements name
 - The elements chemical symbol
 - The elements atomic number
 - The elements atomic mass
10. **The elements Mendeleev predicted had properties similar to aluminium and silicon were:**
- Barium and strontium
 - Bromine and chlorine
 - Lithium and sodium
 - Gallium and germanium

B. Use your guided notes to construct answers to the following questions.

11. **Describe why the “Law of Octaves” is still not considered correct.**
12. **Describe why the periodic table needed to be reordered in 1913.**
13. **State two differences between the modern day periodic table vs. the one published by Mendeleev in 1869.**
14. **State two similarities between the modern day periodic table and Mendeleev’s table.**
15. **Explain there are gaps on Mendeleev’s periodic table.**