

# Periodic Table Homework Answers

## 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.

## Periodic Table Homework Answers

**8. A box on the periodic table represents:**

- a. An element
- b. A compound
- c. A molecule of an element
- d. An atom

**9. What information is not always found in a box on the periodic table?**

- a. The elements name
- b. The elements chemical symbol
- c. The elements atomic number
- d. The elements atomic mass

**10. The elements Mendeleev predicted had properties similar to aluminium and silicon were:**

- a. Barium and strontium
- b. Bromine and chlorine
- c. Lithium and sodium
- d. 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.**

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

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