

Unit 3, Video 1: History of the Periodic Table

1. True or False: The periodic table has not changed in the last 200 years.
2. John Newland noticed that there was a repeating pattern in the properties of elements every ___ elements.
3. True or False: Dmitri Mendeleev is given most of the credit for the development of the periodic table.
4. How was Mendeleev's periodic table arranged?

True or False: Sodium is in roughly the same place on Mendeleev's periodic table as it is on our current periodic table.

5. True or False: The periodic table lists the elements for us but little can be determined about their properties.
6. Name two properties about gallium that Mendeleev was able to predict correctly.
7. Compare Mendeleev's periodic table to the modern periodic table and fill out the table below.

Similarities

Differences

Unit 3, Video 2: Parts of the Periodic Table

1. Periods are the horizontal rows on the periodic table. What information does the period give us?
2. Groups are the vertical columns on the periodic table. What is significant about elements in the same group on the table?
3. Which element has 4 energy levels and properties similar to lithium?
4. True or False: Sulfur is a nonmetal.
5. An unknown sample is analyzed and found to be solid at room temperature, shiny, and a good conductor. Is the unknown sample more likely to be carbon or titanium?
6. Describe the locations of the following groups on the periodic table.
 - a. Halogens
 - b. Alkali Metals
 - c. Transition Metals
 - d. Inner Transition Metals
 - e. Noble Gases
 - f. Alkaline Earth Metals
7. What is the name of the halogen in period three?
8. Which transition metal has similar properties to chromium but is in period 6?
9. Where do the inner transition metals fit into the main body of the periodic table?