

► **Activity 4:** Now that you have read both the texts and the Glossary, choose the correct option

1. The elements are situated in seven horizontal rows called (groups / periods).
2. The properties of the elements change gradually, moving (horizontally / vertically) across each period.
3. The elements are numbered from 1 to 18 from the (rightmost / leftmost) column to the (rightmost / leftmost) column.
4. Metals are found on the (right / left) hand side of the table.
5. Non-metals are found on the (far right / far left) side of the table.
6. There is a (zig-zag / vertical) line that separates metals from non-metals.
7. Metals tend to (gain / lose) electrons.
8. As you progress (from the bottom to the top / down from top to bottom) of a group, the metallic properties tend to increase.
9. Metals are malleable in that they can be (hammered into thin sheets / drawn into wire).
10. Metals are ductile in that they can be (drawn into wire / hammered into thin sheets).
11. Non-metal structures (contain / do not contain) covalent bonds.
12. Metalloids (are / are not) semiconductors.

Word Building 1

► Complete the sentences choosing from the list of words supplied in each group.

A. periodic / periodicals / periodically / period / period / periodicity

1. The majority of scientific journals are released _____.
2. In this disease, the symptoms vary with remarkably regular _____.
3. Alchemy flourished significantly during the Ottoman _____.
4. The inspectors carry out _____ controls and assessments of the production process.
5. The Association conducts research and publishes _____ on the issue of quantum supremacy.

B. repeated / repetition / repetitive / repeating / repeatable

1. _____ movements at work can lead to chronic musculoskeletal disorders.
2. How can we ensure that the results of the experiment are reliable, statistically significant and _____?
3. Since they are completely unpredictable, these phenomena do not display a clear pattern of how often they are _____.
4. The researcher observed a _____ pattern in the analysis of her samples.
5. "_____ is the mother of learning, the father of action, which makes it the architect of accomplishment" (Zig Ziglar, American author, salesman, and motivational speaker)

...Phrases to remember!!!

- ✦ Certain properties **repeat** periodically.
- ✦ Phenomena such as waves **repeat** regularly in both space and time.
- ✦ ... they repeat with a periodicity **that is much greater ...**
- ✦ ... the reactions **repeat** again and again **during the process.**
- ✦ History **repeats** itself.
- ✦ Large-scale patterns **repeat themselves** on smaller scales.

Repeat

periodic means happening at regular intervals
periodical means issued at regular intervals
 1) (adj.) published at regular intervals, and
 2) (n.) a publication

periodic vs. periodical