

Fill in the correct name - Mendeleev or Moseley - to complete each of the following statements.

- Mendeleev predicted properties for elements missing from his periodic table.
- Skip discovered that each element has a unique atomic number.
- Moseley arranged elements according to atomic number.
- Mendeleev arranged elements according to atomic mass.
- Mendeleev had some elements out of place.
- Moseley placed all elements in the right place according to properties.

State the Modern Periodic Law.

When elements are arranged in order of increasing atomic number there is a periodic repetition of their properties

What property is identical to the elements in each column of the periodic table?

Skip

Write the noble gas configuration for each of the following elements.

Lithium $[\text{He}]1s^1$

Magnesium $[\text{Ne}]3s^2$

Copper $[\text{Ar}]4s^2 3d^9$

Bromine $[\text{Ar}]4s^2 3d^{10} 4p^5$

Silver $[\text{Kr}]5s^2 4d^9$

Tellurium $[\text{Kr}]5s^2 4d^{10} 5p^4$

Uranium (Hint: don't forget the f-block!)