

Name : _____ Date : _____

Periodic Table Basics

- ① Where is the location of helium, neon, and argon in the periodic table?

- ② Where are the elements hydrogen, lithium, and sodium located?

- ③ Which elements have complete outer shells? Give the name and symbol for each.

- ④ How would you classify hydrogen? Why?
- ⑤ Elements that are non-lustrous and are poor conductors of electricity are classified as _____.
- ⑥ Group 2 elements are known as _____.
- ⑦ _____ have properties of both metals and nonmetals.
- ⑧ Nonmetals _____ electrons when they form ions.
- ⑨ The periodic table was first arranged by the scientist _____.
- ⑩ Group 1 is also known as the _____ metals.

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Periodic Table Basics

Answers

① Where is the location of helium, neon, and argon in the periodic table?

They are located in the last column.

② Where are the elements hydrogen, lithium, and sodium located?

They are located in the first column.

③ Which elements have complete outer shells? Give the name and symbol for each.

Helium - He

Neon - Ne

Argon - Ar

Krypton - Kr

Xenon - Xe

Radon - Rn

Og-Oganesson

④ How would you classify hydrogen? Why?

Alkali metal - Hydrogen has only one electron in its valence shell.

Alternatively, Halogen - Hydrogen requires only one more electron to complete its valence shell.

⑤ Elements that are non-lustrous and are poor conductors of electricity are classified as

nonmetals.

⑥ Group 2 elements are known as alkaline-earth metals.

⑦ Metalloids have properties of both metals and nonmetals.

⑧ Nonmetals gain electrons when they form ions.

⑨ The periodic table was first arranged by the scientist Mendeleev.

⑩ Group 1 is also known as the alkali metals.