

Introduction to Periodic Table

① Fill in the correct name.

a Predicted the properties for elements missing from his periodic table

b Discovered that each element has a unique atomic number

c Arranged elements according to the atomic number _____

d Arranged elements according to the atomic mass _____

e Had some elements out of place _____

f Place all elements in the right place according to properties

② Identify the following elements as metal, nonmetal, and metalloid.

a Sodium _____

b Chlorine _____

c Silicon _____

d Iron _____

e Carbon _____

f Germanium _____

③ Write the noble gas configuration for each of the following elements.

a Lithium _____

b Magnesium _____

c Copper _____

d Bromine _____

e Silver _____

f Tellurium _____

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Answers

① Fill in the correct name.

a Predicted the properties for elements missing from his periodic table

Mendeleev

b Discovered that each element has a unique atomic number

Moseley

c Arranged elements according to the atomic number Moseley

d Arranged elements according to the atomic mass Mendeleev

e Had some elements out of place Mendeleev

f Place all elements in the right place according to properties

Moseley

② Identify the following elements as metal, nonmetal, and metalloid.

a Sodium Metal

b Chlorine Nonmetal

c Silicon Metalloid

d Iron Metal

e Carbon Nonmetal

f Germanium Metalloid

③ Write the noble gas configuration for each of the following elements.

a Lithium [He] 2s¹

b Magnesium [Ne] 3s²

c Copper [Ar] 4s¹3d⁹

d Bromine [Ar] 4s²3d¹⁰4p⁵

e Silver [Kr] 5s²4d⁹

f Tellurium [Kr] 5s²4d¹⁰5p⁴