



Name _____ Class _____ Date _____

1 The number of **neutrons** in the **nucleus** of an atom can be determined by

- A adding the atomic number to the mass number
- B subtracting the atomic number from the mass number
- C adding the mass number to the atomic mass
- D subtracting the mass number from the atomic number

2 The elements in the Periodic Table are arranged in **order of increasing**

- A atomic number
- B atomic radius
- C mass number
- D neutron number

3 In which group of the Periodic Table do most of the elements exhibit **both** positive and negative **oxidation states**?

- A 17
- B 2
- C 12
- D 1

4 Which **type of reaction** occurs when nonmetal atoms **become negative** nonmetal ions?

- A oxidation
- B reduction
- C substitution



PREVIEW

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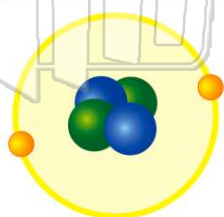
5 Which property is **not** characteristic of metals?

- A high electrical conductivity
- B ductility
- C brittleness
- D malleability

- B the number of protons in the atom
- C the number of valence electrons in the atom
- D the total number of electrons in the atom

9 Which **ion** has the **same electron configuration** as an atom of He?

- A H^{-}
- B O^{2-}
- C Na^{+}
- D Ca^{2+}



10 In which list are the elements arranged in order of **increasing atomic mass**?

- A Cl, K, Ar
- B Fe, Co, Ni
- C Te, I, Xe
- D Ne, F, Na



ANSWER KEY

The number of **neutrons** in the **nucleus** of an atom can be determined by

- A** adding the atomic number to the mass number
- B** subtracting the atomic number from the mass number
- C** adding the mass number to the atomic mass
- D** subtracting the mass number from the atomic number

(b)

The elements in the Periodic Table are arranged in **order of increasing**

- A** atomic number
- B** atomic radius
- C** mass number
- D** neutron number

(a)

In which group of the Periodic Table do most of the elements exhibit **both** positive and negative **oxidation states**?

- A** 17
- B** 2
- C** 12
- D** 7

(a)

Which **type of reaction** occurs when nonmetal atoms **become negative** nonmetal ions?

- A** oxidation
- B** reduction
- C** substitution
- D** condensation

(b)

PREVIEW

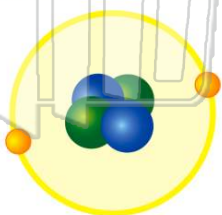
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D malleability

- C** the number of valence electrons in the atom
- D** the total number of electrons in the atom

Which **ion** has the **same electron configuration** as an atom of He?

- A** H^{-}
- B** O^{2-}
- C** Na^{+}
- D** Ca^{2+}



(a)

In which list are the elements arranged in order of **increasing atomic mass**?

- A** Cl, K, Ar
- B** Fe, Co, Ni
- C** Te, I, Xe
- D** Ne, F, Na

(a)