



Name _____ Class _____ Date _____

1 An aqueous solution of XCl_2 contains colored ions. Element **X** could be

- A Ba
- B Ca
- C Ni
- D Bi

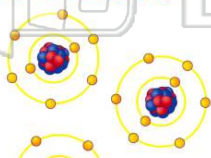


2 Which statement describes a **chemical property** of oxygen?

- A Oxygen has a melting point of 55 K.
- B Oxygen can combine with a metal to produce a compound.
- C Oxygen gas is slightly soluble in water.
- D Oxygen gas can be compressed.

3 Which of the following elements has the **strongest attraction** for electrons?

- A boron
- B aluminum
- C oxygen
- D sulfur



4 Which elements are both classified as **metalloids**?

- A Ge and As
- B Bi and Po
- C B and C
- D Si and P

5



PREVIEW

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7

- A selenium
- B tellurium
- C oxygen
- D sulfur

Se
Selenium
52
Te
Tellurium
84
Po
Polonium

- B helium
- C silver
- D tellurium

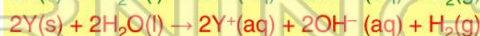
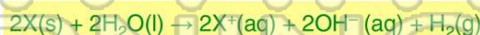
9

Atoms of which set of elements all exhibit the **same oxidation state**?

- A actinoid series
- B metalloids
- C alkaline earth metals
- D transition metals

4
Be
Beryllium
12
Mg
Magnesium
20
Ca
Calcium
38
Sr
Strontium
56
Ba
Barium
88
Ra
Radium

10 Given the reactions:



The unknowns, **X** and **Y**, are most likely

- A metallic elements in the same group
- B metallic elements in the same period
- C nonmetallic elements in the same group
- D nonmetallic elements in the same period



ANSWER KEY

An aqueous solution of XCl_2 contains colored ions. Element **X** could be

- A Ba
- B Ca
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- D Bi



(C)

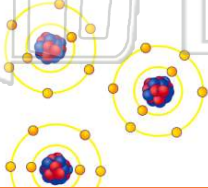
Which statement describes a **chemical property** of oxygen?

- A Oxygen has a melting point of 55 K.
- B Oxygen can combine with a metal to produce a compound.
- C Oxygen gas is slightly soluble in water.
- D Oxygen gas can be compressed.

(b)

Which of the following elements has the **strongest attraction** for electrons?

- A boron
- B aluminum
- C oxygen
- D sulfur



(C)

Which elements are both classified as **metalloids**?

- A Ge and As
- B Bi and Po
- C B and C
- D Si and P

(a)



PREVIEW

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- B tellurium
- C oxygen
- D sulfur

52
Te
Tellurium
84
Po
Po

- D tellurium

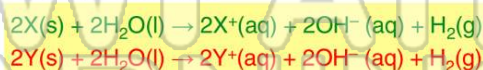
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Ra
Radium

(C)

Given the reactions:



The unknowns, **X** and **Y**, are most likely

- A metallic elements in the same group
- B metallic elements in the same period
- C nonmetallic elements in the same group
- D nonmetallic elements in the same period

(a)