



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



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

A Ge and As

5



PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7

compound that would exhibit the **strongest hydrogen bonding**?

- A selenium
B tellurium
C oxygen
D sulfur

16	S	Sulfur
34	Se	Selenium
52	Te	Tellurium
84	Po	Po

- A bismuth
B helium
C silver
D tellurium

9

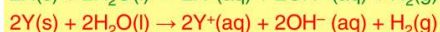
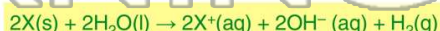
Atoms of which set of elements all exhibit the **same oxidation state**?

- 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

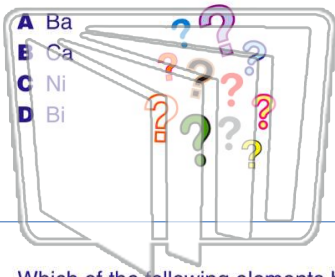


Name _____ Class _____ Date _____

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



4

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

A Ge and As

5



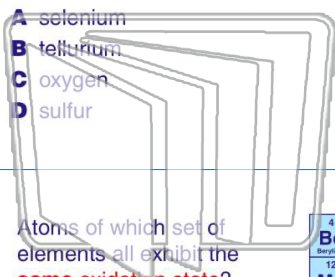
PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7

compound that would exhibit the **strongest hydrogen bonding**?

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



16	S	Sulfur
34	Se	Selenium
52	Te	Tellurium
84	Po	Polonium

- A bismuth
- B helium
- C silver
- D tellurium

9

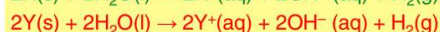
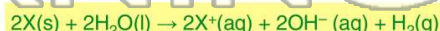
Atoms of which set of elements all exhibit the **same oxidation state**?

- 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