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Polyatomic Ions Quiz PDF

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Compare and contrast the sulfate (SO_4^2) and sulfite (SO_3^2) ions in terms of structure and usage.

Describe the role of phosphate ions in biological systems.

Which of the following is a polyatomic ion?

- () Na⁺
- ⊖ Cl[.]
- $\bigcirc NH_4^+$
- ⊖ Mg²⁺

Which suffix is commonly used for polyatomic ions with more oxygen atoms?

- 🔾 -ite
- ⊖ -ate
- 🔾 -ide

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⊖ -ous

What is the formula for the nitrate ion?

- $\bigcirc NO_2^{-1}$ $\bigcirc NO_3^{-1}$
- O NO⁺

Which of the following ions are polyatomic ions? (Select all that apply)

 $\Box Cl^{-}$ $\Box CO_{3}^{2}$ $\Box SO_{4}^{2}$ $\Box Na^{+}$

What is the charge on the phosphate ion (PO_4) ?

- -1○ -2○ -2
- ⊖ -3
- ⊖ **+1**

Which of the following polyatomic ions are commonly found in biological systems? (Select all that apply)

Phosphate (PO₄³)
 Ammonium (NH₄⁺)
 Nitrate (NO₃⁻)
 Hydroxide (OH⁻)

Which polyatomic ions contain oxygen? (Select all that apply)

- Ammonium (NH₄⁺)
 Hydroxide (OH⁻)
 Nitrate (NO₄⁻)
- \Box Sulfite (SO²)

Which of the following ions have a -2 charge? (Select all that apply)

 \Box Sulfate (SO₄²)

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Carbonate (CO₃²)
 Phosphate (PO₄³)
 Nitrate (NO₃⁻)

Which of the following ions end with the suffix '-ite'? (Select all that apply)

- $\square \text{ Nitrite } (\text{NO}_2)$ $\square \text{ Sulfite } (\text{SO}_3^2)$ $\square \text{ Sulfite } (\text{SO}_3^2)$
- $\square Phosphate (PO_4^{3})$
- \Box Chlorite (ClO₂)

What is the charge of the sulfate ion (SO_a) ?

- O -1
- **-2**
- ⊖ +1
- **+2**

Which of the following are correct formulas for polyatomic ions? (Select all that apply)

- PO₄³⁻
 NH₃⁺
- □ SO₃²

Discuss the environmental significance of nitrate ions.

Which of the following is the ammonium ion?

- \bigcirc NH₃
- $\bigcirc NH_4^+$
- NH,⁻



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 $\bigcirc NH_{4}^{-}$

What is the correct formula for the hydroxide ion?

O HO

⊖ OH[.]

 $\bigcirc O_2 H^2$

 $\bigcirc H_2O^{-}$

Which of the following polyatomic ions contains sulfur?

⊖ Carbonate

O Phosphate

○ Sulfate

○ Nitrate

What challenges might a student face when learning the names and formulas of polyatomic ions, and how can they overcome them?

Explain why polyatomic ions are important in chemical reactions.

How do the prefixes 'per-' and 'hypo-' modify the names of polyatomic ions? Provide examples.

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