

Naming Acids Worksheet Answer Key PDF

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Part 1: Foundational Knowledge

What is the prefix used in the naming of binary acids?

undefined. Perundefined. Hydro- ✓ undefined. Hypoundefined. Meta-

The prefix used in the naming of binary acids is 'Hydro-'.

What is the prefix used in the naming of binary acids?

undefined. Per-

undefined. Hydro- ✓

undefined. Hypoundefined. Meta-

The prefix used in the naming of binary acids is 'hydro-'.

Which of the following are characteristics of acids? (Select all that apply)

undefined. Release hydrogen ions in water ✓ undefined. Taste bitter
undefined. Turn blue litmis paper red ✓ undefined. Feel slippery

Acids release hydrogen ions in water, turn blue litimus paper red.

Which of the following are characteristics of acids? (Select all that apply)

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undefined. Release hydrogen ions in water ✓
undefined. Taste bitter
undefined. Turn blue litimus paper red ✓
undefined. Feel slippery

Acids typically release hydrogen ions in water and turn blue litimus paper red.

Which of the following are characteristics of acids? (Select all that apply)

undefined. Release hydrogen ions in water ✓ undefined. Taste bitter
undefined. Turn blue litimus paper red ✓ undefined. Feel slippery

Acids typically release hydrogen ions in water and turn blue litimus paper red.

Explain the difference between binary acids and oxyacids in terms of their composition.

Binary acids consist of hydrogen and one other nonmetal, while oxyacids contain hydrogen, oxygen, and another element.

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Binary acids consist of hydrogen and one other nonmetal, while oxyacids contain hydrogen, oxygen, and another element.

List the suffixes used for naming acids derived from polyatomic ions ending in "-ate" and "-ite."

1. -ate

-ic

2. -ite

-ous



The suffix for '-ate' is '-ic' and for '-ite' is '-ous'.

List the suffixes used for naming acids derived from polyatomic ions ending in "-ate" and "-ite."

1. -ate:

-ic

2. -ite:

-ous

The suffix for '-ate' ions is '-ic' and for '-ite' ions is '-ous'.

Part 2: Comprehension

Which of the following is the correct name for H₂SO₄?

undefined. Sulfurous acid **undefined. Sulfuric acid** ✓ undefined. Hydrosulfuric acid undefined. Sulfate acid

The correct name for H₂SO₄ is 'Sulfuric acid'.

Which of the following is the correct name for H₂SO₄?

undefined. Sulfurous acid **undefined. Sulfuric acid** ✓ undefined. Hydrosulfuric acid undefined. Sulfate acid

The correct name for H_2SO_4 is sulfuric acid.

Which of the following is the correct name for H₂SO₄?

undefined. Sulfurous acid **undefined. Sulfuric acid** ✓ undefined. Hydrosulfuric acid undefined. Sulfate acid

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The correct name for H_2SO_4 is sulfuric acid.

Identify the correct names for the following acids: HNO, and HNO,.

undefined. Nitric acid and Nitrous acid ✓ undefined. Nitrous acid and Nitric acid undefined. Hydro nitric acid and Hydro nitrous acid undefined. Nitrate acid and Nitrite acid

HNO₃ is nitric acid and HNO₂ is nitrous acid.

Identify the correct names for the following acids: HNO₃ and HNO₂.

undefined. Nitric acid and Nitrous acid \checkmark

undefined. Nitrous acid and Nitric acid undefined. Hydro nitric acid and Hydro nitrous acid undefined. Nitrate acid and Nitrite acid

HNO, is Nitric acid and HNO, is Nitrous acid.

Identify the correct names for the following acids: HNO₃ and HNO₂.

undefined. Nitric acid and Nitrous acid \checkmark

undefined. Nitrous acid and Nitric acid undefined. Hydro nitric acid and Hydro nitrous acid undefined. Nitrate acid and Nitrite acid

HNO₃ is nitric acid and HNO₂ is nitrous acid.

Describe how the naming of oxyacids is influenced by the polyatomic ions they contain.

The naming of oxyacids is based on the name of the polyatomic ion; '-ate' ions become '-ic' acids and '-ite' ions become '-ous' acids.

Describe how the naming of oxyacids is influenced by the polyatomic ions they contain.



The naming of oxyacids is based on the name of the polyatomic ion; '-ate' becomes '-ic' and '-ite' becomes '-ous'.

Describe how the naming of oxyacids is influenced by the polyatomic ions they contain.

The naming of oxyacids is based on the polyatomic ion's name, with '-ate' ions becoming '-ic' acids and '-ite' ions becoming '-ous' acids.

Part 3: Application and Analysis

Given the formula HCIO, what is the correct name of this acid? undefined. Chloric acid undefined. Hypochlorous acid ✓ undefined. Perchloric acid undefined. Chlorous acid

The correct name for HCIO is 'Hypochlorous acid'.

Given the formula HCIO, what is the correct name of this acid?

undefined. Chloric acid **undefined. Hypochlorous acid** ✓ undefined. Perchloric acid undefined. Chlorous acid

The correct name for HCIO is hypochlorous acid.

Given the formula HCIO, what is the correct name of this acid?

undefined. Chloric acid **undefined. Hypochlorous acid** ✓ undefined. Perchloric acid undefined. Chlorous acid

The correct name for HCIO is hypochlorous acid.



Which of the following formulas represent binary acids? (Select all that apply)

undefined. HBr ✓ undefined. H₂CO₃ undefined. HI ✓ undefined. HNO₃

HBr and HI are examples of binary acids.

Which of the following formulas represent binary acids? (Select all that apply)

undefined. HBr ✓ undefined. H₂CO₃ undefined. HI ✓ undefined. HNO₃

Binary acids consist of hydrogen and one other nonmetal element.

Which of the following formulas represent binary acids? (Select all that apply)

undefined. HBr ✓ undefined. H₂CO₃ undefined. HI ✓ undefined. HNO₃

Binary acids consist of hydrogen and one other nonmetal, such as HBr and HI.

Write the chemical formula for phosphoric acid and explain the steps involved in deriving it from its name.

The chemical formula for phosphoric acid is H₃PO₄, derived from the phosphate ion.

Write the chemical formula for phosphoric acid and explain the steps involved in deriving it from its name.

The chemical formula for phosphoric acid is $H_{3}PO_{4}$, derived from the phosphate ion.



Write the chemical formula for phosphoric acid and explain the steps involved in deriving it from its name.

The chemical formula for phosphoric acid is $H_{3}PO_{4}$, derived from the name by identifying the elements involved.

Part 4: Evaluation and Creation

Create a name for an acid with the formula H₂TeO₄. Which of the following names would be correct?

undefined. Telluric acid ✓ undefined. Tellurous acid undefined. Hydrotelluric acid undefined. Perchloric acid

The correct name for H_2TeO_4 is 'Telluric acid'.

Create a name for an acid with the formula H₂TeO₄. Which of the following names would be correct?

undefined. Telluric acid ✓ undefined. Tellurous acid undefined. Hydrotelluric acid undefined. Perchloric acid

The correct name for $H_2 TeO_4$ is telluric acid.

Create a name for an acid with the formula H₂TeO₄. Which of the following names would be correct?

undefined. Telluric acid ✓ undefined. Tellurous acid undefined. Hydrotelluric acid undefined. Perchloric acid

The correct name for H₂TeO₄ is telluric acid.

Evaluate the naming system for acids and propose any improvements or changes that could make it more intuitive for learners.



The naming system could be improved by simplifying the rules and providing more examples.

Evaluate the naming system for acids and propose any improvements or changes that could make it more intuitive for learners.

The naming system could be improved by providing clearer guidelines and examples for students.

Evaluate the naming system for acids and propose any improvements or changes that could make it more intuitive for learners.

The naming system could be improved by providing clearer guidelines and examples for learners.

Given the following polyatomic ions, create the names for their corresponding acids:

1. NO₃ Nitric acid

2. CIO₂⁻ Chlorous acid

3. SO₄²⁻ Sulfuric acid

The names for the acids are based on the polyatomic ions' endings.

Given the following polyatomic ions, create the names for their corresponding acids:

1. NO₃: Nitric acid

2. CIO₂:: Chlorous acid

3. SO₄²: Sulfuric acid

The names for the acids are based on the names of the polyatomic ions they derive from.

Given the following polyatomic ions, create the names for their corresponding acids:

1. NO₃⁻:



Nitric acid

2. CIO₂:: Chlorous acid

3. SO₄²: Sulfuric acid

The names for the acids are based on the suffixes of the polyatomic ions.