SC2. E. I can ask questions about chemical names to identify patterns in IUPAC nomenclature in order to predict chemical names for ionic, acidic, and inorganic covalent compounds.

Writing & Naming ACIDS Video Notes

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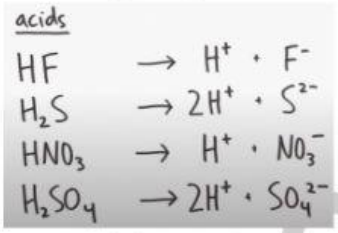
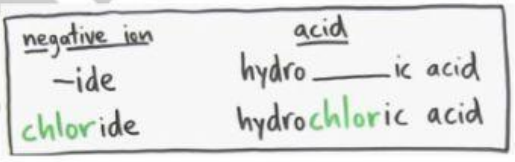
1. An acid is a compound in which one or more _____ are bonded to a _____ ion. When naming acids just like in any ionic



2. Groups of elements that together have a charge are called _____ ions. Just like in any ionic formula the positive charge and the negative charge have to _____ out.

3. The name of an acid is based on the name of the _____ ion that is part of the acid.

4. There are two types of acids. One that have _____ and ones that don't have _____



Naming Acids without Oxygen: Write down what is shown in the video for this part.

HCl = _____ acid

HBr = _____ acid

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SC2. E. I can ask questions about chemical names to identify patterns in IUPAC nomenclature in order to predict chemical names for ionic, acidic, and inorganic covalent compounds.

negative ion	acid
-ate	-ic acid
nitrate	nitric acid

Naming Acids with Oxygen (Oxoacids): Write down what is shown in the video for this part.

HNO_3 = _____ acid

H_2CO_3 = _____ acid

Polyatomic Ions	
Carbonate	CO_3^{2-}
Chromite	CrO_2^-
Hypochlorite	ClO^-
Nitrate	NO_3^-
Nitrite	NO_2^-
Permanganate	MnO_4^-
Phosphate	PO_4^{3-}
Phosphite	PO_3^{3-}
Sulfate	SO_4^{2-}
Sulfite	SO_3^{2-}

negative ion	acid
-ite	-ous acid
nitrite	nitrous acid

HNO_2 = _____ acid

$HCrO_2$ = _____ acid

negative ion	acid	example	
-ide	hydro___ic acid	chloride	hydrochloric acid
-ate	-ic acid	nitrate	nitric acid
-ite	-ous acid	nitrite	nitrous acid

My r___ has _____l_____s.

I _____ something ____ky.

Spr____ is delici_____.

Important Exception!

acids	negative ions	
H_3PO_4	phosphate (PO_4^{3-})	_____
H_3PO_3	phosphite (PO_3^{3-})	_____
H_2SO_4	sulfate (SO_4^{2-})	_____
H_2SO_3	sulfite (SO_3^{2-})	_____

Polyatomic Ions	
Carbonate	CO_3^{2-}
Chromite	CrO_2^-
Hypochlorite	ClO^-
Nitrate	NO_3^-
Nitrite	NO_2^-
Permanganate	MnO_4^-
Phosphate	PO_4^{3-}
Phosphite	PO_3^{3-}
Sulfate	SO_4^{2-}
Sulfite	SO_3^{2-}

$HMnO_4$ = _____ acid

$HClO$ = _____ acid

So how do we name acids?

Take a look at the _____ ion they have in them, we look at the _____ of that negative ion, and we use the _____ to figure out what we call the acid.

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