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| --- | --- |
| Class Notes  Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

**Do Now:**

|  |  |  |
| --- | --- | --- |
| Draw 4 particles of (Na+)(Cl-)    Will this conduct electricity? |  | Draw 4 particles of (C6H12O6)    Will this conduct electricity? |

1. Electrolytes are:

1. Let’s try plugging in some acids!

|  |  |  |  |
| --- | --- | --- | --- |
| Formula | Result of electric light bulb test: | how it looks when dissolved: | New Rule: |
| HCl  hydrochloric acid |  |  |  |
| H2SO4  sulfuric acid |  |  |
| HC2H3O2  the acetic acid in vinegar |  |  |
| C2H5OH  methyl alcohol |  |  |

1. Rules for drawing dissolved things:
   1. if metal is on the left…
   2. if there is an H on the left…
   3. if there’s a metal AND an OH…
2. Acids

|  |
| --- |
|  |

1. can burn holes in…
2. indicator paper turns…
3. if they are in food they…
4. electricity can…
5. on skin they feel like…
6. pH meter will show…
7. formula has …
8. Bases

|  |
| --- |
|  |

1. can burn holes in…
2. indicator paper turns…
3. if they are in food they…
4. electricity can…
5. on skin they feel like…
6. pH meter will show…
7. formula has metal on the left AND HAS …

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Homework 

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Compound | Metal Present? | H on the left? | Is it an acid? | Show the one OR MORE particles it makes when dissolved in water  (you can often just chop off the metal part from the left OR you may like using a table of common ions for help) | Is it an electrolyte? |
| NaOH |  |  |  |  |  |
| HCl |  |  |  |  |  |
| KNO3 |  |  |  |  |  |
| HNO3 |  |  |  |  |  |
| HBr |  |  |  |  |  |
| KCl |  |  |  |  |  |
| CO2 |  |  |  |  |  |
| NaBr |  |  |  |  |  |
| HCH3COO |  |  |  |  |  |
| NaF |  |  |  |  |  |
| HF |  |  |  |  |  |
| CaO |  |  |  |  |  |
| CaF2 |  |  |  |  |  |

1. On the back, make three lists titled “acids”, ”bases”, ”neither”. Fill up the lists by *copying the mystery numbers* from things you find on the wall onto the back of this sheet.

|  |  |  |  |
| --- | --- | --- | --- |
| mystery liquid | mystery liquid | mystery liquid | mystery liquid |
| 101 | 102 | 103 | 104 |
| turns indicator paper blue | turns indicator paper red | turns indicator paper orange | feels slippery, soapy |
| mystery liquid | mystery liquid | mystery liquid | mystery liquid |
| 105 | 106 | 107 | 108 |
| feels like water | in food tastes bitter | in food tastes sour | conducts electricity |
| mystery liquid | mystery liquid | mystery liquid | mystery liquid |
| 109 | 110 | 111 | 112 |
| gives off an H+ when dissolved in water | gives off an OH- when dissolved in water | has a pH = 7 | has a pH = 2 |
| mystery liquid | mystery liquid | mystery liquid | mystery liquid |
| 113 | 114 | 115 | 116 |
| Has a pH=6 | Has a pH=10 | Has a pH = 12 | Has a pH = 7 |
| mystery liquid | mystery liquid | mystery liquid | mystery liquid |
| 117 | 118 | 119 | 120 |
| Has a formula HClO3 | Has a formula NaOH | Has a formula KOH | Has a formula KBr |