Acids and Bases

Venn Diagram

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Directions:

1. Cut apart the properties of Acids and Bases.
2. Determine if the property describes the property of an Acid, a Base, or if it can describe both Acids and Bases.
3. Place the strips into the Venn Diagram.
4. Check your answers:
   a. If it is correct, glue (or write) the property into the Venn Diagram.
   b. If you are incorrect, move the property to the correct location and glue (or write) the property into the Venn Diagram.
<table>
<thead>
<tr>
<th>Sour taste</th>
<th>H$_3$O$^+$ ions</th>
<th>Fruits &amp; Juices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feels Slippery</td>
<td>Corrosive</td>
<td>OH$^-$ ions</td>
</tr>
<tr>
<td>Bitter</td>
<td>Reactive with metals</td>
<td>Not reactive with metals</td>
</tr>
<tr>
<td>Conducts electricity</td>
<td>Cleaning products</td>
<td>pH less than 7</td>
</tr>
<tr>
<td>Blue litmus paper turns red</td>
<td>pH greater than 7</td>
<td>Red litmus paper turns blue</td>
</tr>
</tbody>
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Acids & Bases

Not reactive with metals
Conducts electricity
Cleaning products
pH less than 7
pH greater than 7
Feels slippery
$H_3O^+$ ions
Bitter
Corrosive
$OH^-$ ions
Sour Taste
red litmus turns blue
blue litmus turns red
Reactive with metals
Acids & Bases

- Sour Taste
  - $\text{H}_3\text{O}^+$ ions
  - Fruits & Juices
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  - blue litmus turns red
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- Reactive with metals
- Conducts electricity
- pH less than 7
- Not reactive with metals

Bases

- Corrosive
  - $\text{OH}^-$ ions
  - red litmus turns blue
  - pH greater than 7
- Cleaning products
- Bitter

Not reactive with metals

Feels slippery

Conducts electricity