

## DBL Acid Base

The following video will help you use your critical thinking skills to determine the strategies you should employ for varied acid-base problems. As you watch the video, make note of patterns that you can apply to different problems.

### 27.0.1 Acid Base Decision Based Learning

Strong Acid + Strong Base  $\therefore$  react stoichiometrically  
 BCA table ... use moles not concentration  
 no x ... use limiting reactant

|   | HCl         | + | NaOH | $\rightarrow$ | H <sub>2</sub> O | + | NaCl |
|---|-------------|---|------|---------------|------------------|---|------|
| B | 0.5         |   | 1    |               |                  |   | 0    |
| C | -0.5        |   | -0.5 |               |                  |   | +0.5 |
| A | $\emptyset$ |   | 0.5  |               |                  |   | 0.5  |

1 L of 1M NaOH  
 0.5 L of 1M HCl

neutral salt

$\frac{0.5 \text{ mol}}{1.5 \text{ L}} = 0.3$

[Watch on YouTube](#)

# Files

Open in Google Drive



This content is provided to you freely by BYU Open Learning Network.

Access it online or download it at

[https://open.byu.edu/general\\_college\\_chemistry\\_2/dbl\\_acid\\_base](https://open.byu.edu/general_college_chemistry_2/dbl_acid_base).