

Name: \_\_\_\_\_

## Neutralization Reactions Worksheet

Reading: Cycle 6 Chemistry II Lesson 4

Neutralization Reaction: Acid + Base  $\rightarrow$  Salt + Water

H<sup>+</sup> from acid and OH<sup>-</sup> from base combine to form H<sub>2</sub>O. Leftovers form 'salt'.

Remember in salt, write metal first! KCl not ClK!

**Example 1:**  $\text{HI} + \text{NaOH} \rightarrow \text{H}_2\text{O} + \text{NaI}$

H and OH combine to form water. One atom of I & one of Na leftover. Na is a metal so write NaI (not INa)

**Example 2:**  $\_\_\text{HF} + \_\_\text{Ca(OH)}_2 \rightarrow \_\_\_\_\_\_ + \_\_\_\_\_\_$

For complete neutralization, must have equal number of H and OH. Therefore we need 2 HF for 1 Ca(OH)<sub>2</sub>

$\_\_\text{2 HF} + \_\_\text{1 Ca(OH)}_2 \rightarrow \_\_\_\_\_\_ + \_\_\_\_\_\_$

Two H and two OH make two waters. Think of prom! Two boys and two girls make two couples.

$\_\_\text{2 HF} + \_\_\text{1 Ca(OH)}_2 \rightarrow \_\_\text{2 H}_2\text{O} + \_\_\_\_\_\_$

What's left? 2 F atoms and 1 Ca atom form the 'salt'. Remember that Ca is the metal, so it goes first.

$\_\_\text{2 HF} + \_\_\text{1 Ca(OH)}_2 \rightarrow \_\_\text{2 H}_2\text{O} + \_\_\text{CaF}_2$

Safety check: is CaF<sub>2</sub> a good formula? P.T. tells you ions are Ca<sup>+2</sup> and F<sup>-</sup>, so total charge is 0 like it should be.

1. Complete & balance these neutralization reactions. Remember that H<sub>2</sub>O = HOH!

$\text{H}_2\text{SO}_4 + \text{Sr(OH)}_2 \rightarrow \_\_\text{H}_2\text{O} + \text{SrSO}_4$

$\_\_\text{Ca(OH)}_2 + \_\_\text{H}_3\text{PO}_4 \rightarrow \_\_\text{H}_2\text{O} + \_\_\text{Ca}_3(\text{PO}_4)_2$

$\_\_\text{HBr} + \text{Ba(OH)}_2 \rightarrow \_\_\text{H}_2\text{O} + \_\_\_\_\_\_$

$\text{Zn(OH)}_2 + \_\_\text{HNO}_3 \rightarrow \_\_\_\_\_\_ + \text{Zn(NO}_3)_2$

$\text{Al(OH)}_3 + \_\_\text{HCl} \rightarrow \_\_\_\_\_\_ + \_\_\_\_\_\_$

2. Complete and balance the following equations representing neutralization reactions:

a)  $\_\_\text{CsOH} + \text{H}_2\text{SO}_3 \rightarrow \_\_\text{H}_2\text{O} + \text{Cs}_2\text{CO}_3$

b)  $\_\_\text{HF} + \text{Mg(OH)}_2 \rightarrow \_\_\text{H}_2\text{O} + \_\_\_\_\_\_$

c)  $\_\_\text{HNO}_3 + \text{Al(OH)}_3 \rightarrow \_\_\text{H}_2\text{O} + \text{Al(NO}_3)_3$

d)  $\text{HCl} + \text{KOH} \rightarrow \_\_\_\_\_\_ + \_\_\_\_\_\_$

e)  $\text{HBrO}_3 + \text{LiOH} \rightarrow \text{H}_2\text{O} + \_\_\_\_\_\_$

# Neutralization Reactions Work Sheet 15

**J Spring**



## Neutralization Reactions Work Sheet 15:

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**Neutralization Determinants of United States Bluetongue Virus Serotype Ten** Christopher David DeMaula, 1993 *Recommended Methods of Reduction, Neutralization, Recovery, Or Disposal of Hazardous Waste: Industrial and municipal disposal candidate waste stream constituent profile reports, organic compounds* TRW Systems Group, R. S. Ottinger, J. L. Blumenthal, D. F. Dal Porto, G. I. Gruber, M. J. Santy, C. C. Shih, 1973 Essentials of Chemical Education Hans-Dieter Barke, Günther Harsch, Siegbert Schmid, 2011-10-28 For everybody teaching chemistry or becoming a chemistry teacher the authors provide a practice oriented overview with numerous examples from current chemical education including experiments models and exercises as well as relevant results from research on learning and teaching With their proven concept the authors cover classical topics of chemical education as well as modern topics such as every day life chemistry student s misconceptions the use of media or the challenges of motivation This is the completely revised and updated English edition of a highly successful German title Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

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