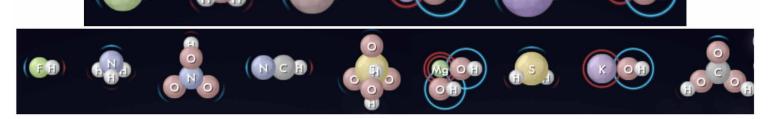
## ACID STRENGTH - GENERAL CHEMISTRY FORMATIVE ASSESSMENT



## STUDENT CHECK FOR UNDERSTANDING

## **DIRECTIONS:**

Identify the reactants and products from the bank that fulfill each scenario described in the table. Simply write the coefficients (if needed), chemical formulas, and state symbols (use "aq" for most, " $\ell$ " for H<sub>2</sub>O, and "s" for solid when using Mg(OH)<sub>2</sub> as it is mostly insoluble in water) on the appropriate lines in the "Balanced Molecular Equation" column. Use the sandbox to help as needed. **Some substances may be used more than once and some scenarios might have more than one correct answer.**  Concepts: Bronsted-Lowry Acids & Bases, Strong vs Weak Acids, Percent Dissociation, Neutralization Reactions, Polyprotic Acids, Amphoteric Substances, Conjugate Acids & Bases, and Charge of Resulting Ions



Scenario	Balanced Molecular Equation		
A base that is <b>NOT</b> ionic reacts with an amphoteric substance to form hydroxide and another ion.	Coefficient Chemical + State Coefficient		
An acid that dissociates only partially at 0.1 M reacts with an ionic salt that fully dissociates at the same concentration.	+ → +		



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Addition of this substance to water produces an amphoteric substance which can also dissociate in water. Write the equations for each individual reaction. You must determine the formula of the amphoteric substance yourself.	$ + H_2O(\ell) \rightleftharpoons +$	
The neutralization reaction between these two substances produces anions with -1 charges and cations with +2 charges.	+ → +	
An acid with an extremely weak conjugate base reacts with a base that is <b>NOT</b> an ionic compound.	+ → +	•••
A reaction occurs between a weak acid and a base with a weak conjugate acid.	+ → +	



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