Analysis Activity

ACID STRENGTH

Directions:

Name: _____

1. Log into Collisions and navigate to the Acids & Bases Game.
2. Play the Tutorial levels, if you haven't done so already.
3. Exit the levels and enter the Acids & Bases Sandbox. 
4. Either add or remove a proton to the item listed in the table below and complete the following information.

	HCl	HF	NaOH	HCN	HI	KOH	NH_3
Did you add or remove a proton?	Removed a proton						
Is this an an ACID, a BASE, or both?	Acid						
IF ACID, what is the percent dissociation?	99.99% dissociation						
IF ACID, is it a strong (high percent dissociation) or a weak acid (low percent dissociation)?	Strong acid						

Order only the ACIDS in the table above from weakest to strongest.

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ACID STRENGTH

	H_2CO_3	H_2S	H_2SO_4	HNO_3	HBr	H_2O	$MgOH_2$
Did you add or remove a proton?							
Is this an an ACID, a BASE, or Both?							
IF ACID, what is the percent dissociation?							
IF ACID, is it a strong (high percent dissociation) or a weak acid (low percent dissociation)?							

Order only the ACIDS in the table above from weakest to strongest.

Anaylsis Questions:

1. Describe the behavior of a Brønsted-Lowry acid and the behavior of a Brønsted-Lowry base.

2. What is the relationship between acid strength and the amount of H^+ in a solution?