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Name

# Build Your Own pH Test Strip Worksheet

## Data Table 1

Concentrations (Molar)		pH	
		HCl Acid	NaOH
Well 1	0.1 M		
Well 2	0.01 M		
Well 3	0.001 M		
Well 4	0.0001 M		
Well 5	0.00001 M		
Well 6	0.000001 M		

Solutions	pН	[H⁺]
Tap Water		
Grapefruit Juice		
Ammonia Water		
Rainwater		
Soda (7-Up®)		
White Vinegar		
Sea/Lake/Pond Water		

#### Observations

How many drops of sodium hydroxide are required to match the color in the upper-middle cup containing a neutral solution (water)?

### Post-Lab Questions

1. What effect does the addition of sodium hydroxide have upon the Universal Indicator?

2. What effect does the addition of sodium hydroxide have upon the solution itself with respect to the concentration of the hydronium ions [H<sup>+</sup>]?

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