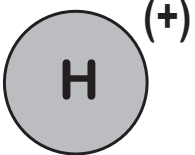




Acids, Bases & Salts

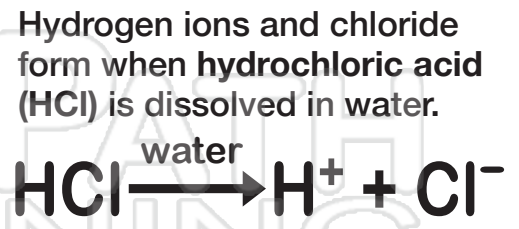
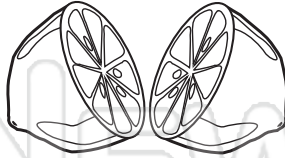
Name _____ Class _____ Date _____

When placed in water, **acids** release **hydrogen (H⁺) ions**. When an acidic substance dissolves in water – **hydrogen atoms** break away from the acid molecules. This process forms **hydrogen ions**.



Characteristics of ACIDS:

- have a **sour taste**
- turn blue litmus paper **red**
- react with **metals** producing **hydrogen gas**
- **conduct** electric current



A **base** is a type of bitter substance. When placed in water, bases release **hydroxide (OH⁻) ions** into the water.



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PREVIEW

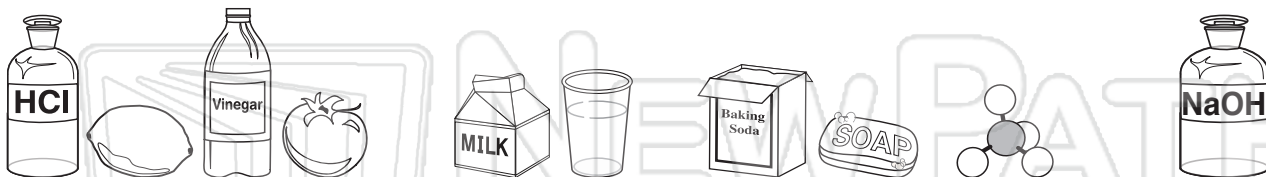
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Neutral solutions have a pH of **exactly 7**.



1 2 3 4 5 6 7 8 9 10 11 12 13 14



Acids, Bases & Salts

Name _____ Class _____ Date _____

Acids and bases vary in **strength** depending on the number of molecules that break apart to produce ions when dissolved in water. The more **hydrogen ions (H^+)** formed, the stronger the **acid**. Likewise, the more **hydroxide ions (OH^-)** formed the stronger the **base**.

pH indicators are substances that change color when they are added to acidic solutions or alkaline (basic) solutions. They are used to determine if a substance is **acidic** or **basic**.

Universal pH Indicator Paper:

A strong **acid** will turn the universal pH indicator paper **red**.

A strong **base** will turn the universal indicator paper **purple**.



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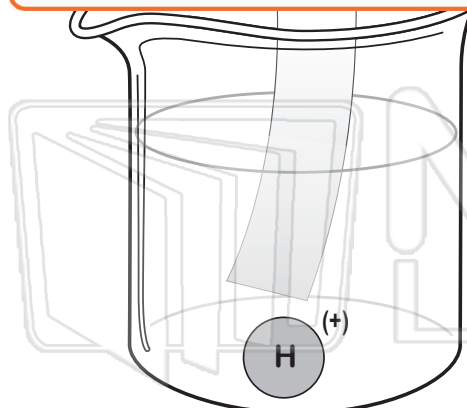
Blue

Red

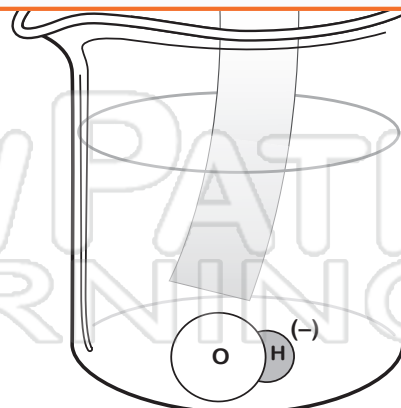


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acidic - blue litmus turns red



basic - red litmus turns blue



Acids, Bases & Salts

Name _____ Class _____ Date _____

Fill in the blanks.

When placed in water, **acids** release _____ **ions** into the water.

Acids taste _____.

When placed in water, **bases** release _____ **ions** into the water.

Bases taste _____ and feel _____.

_____ indicators are chemicals that **change**
in the presence of an acid or base. They are used to determine
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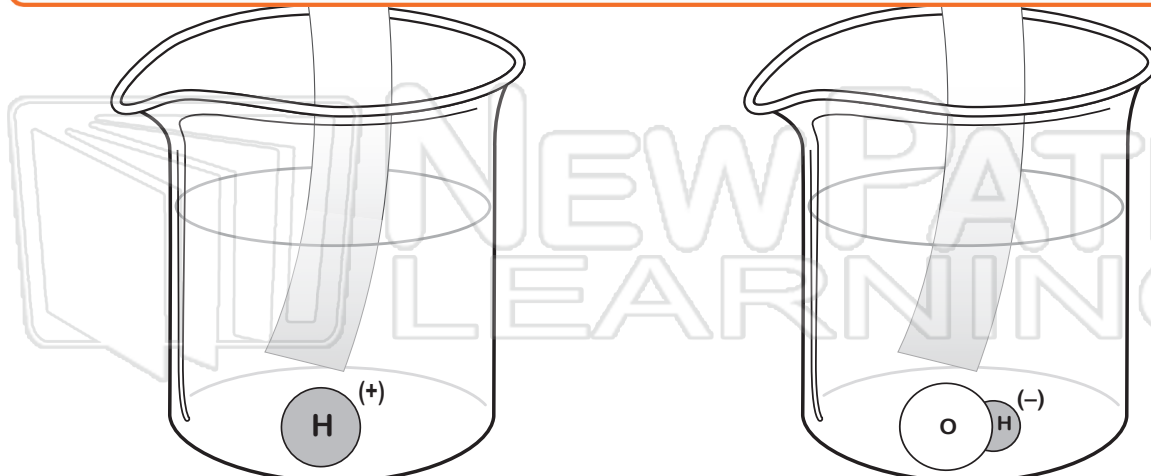
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Acids & Bases

Name _____ Class _____ Date _____

Cut out and color the objects. Make a large **pH scale**. Use references, if needed, to help you place items along the pH scale. Find more items to add to the scale.



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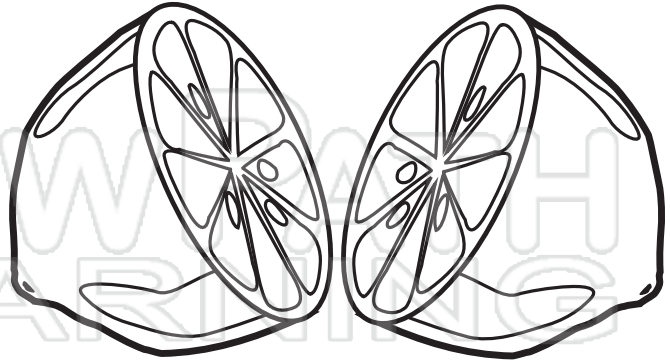
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Acids & Bases

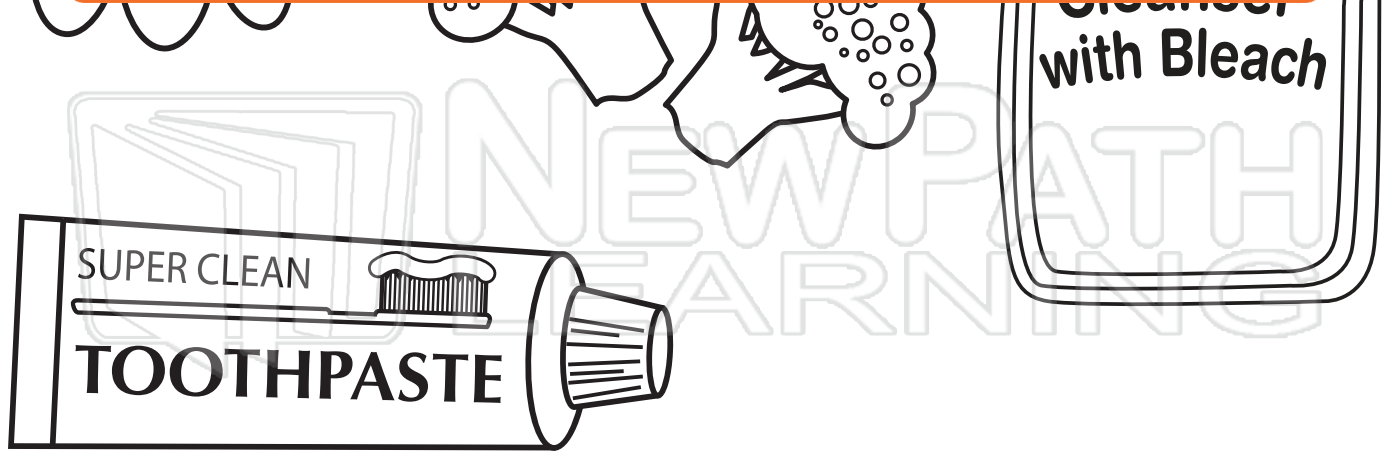
Name _____ Class _____ Date _____

Cut out and color the objects. Make a large **pH scale**. Use references, if needed, to help you place items along the pH scale. Find more items to add to the scale.



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Acids & Bases

Answer Key

Fill in the blanks.

When placed in water, **acids** release hydrogen **ions** into the water.

Acids taste sour.

When placed in water, **bases** release hydroxide **ions** into the water.

Bases taste bitter and feel slippery.

pH indicators are chemicals that **change** in the presence of an acid or base. They are used to determine

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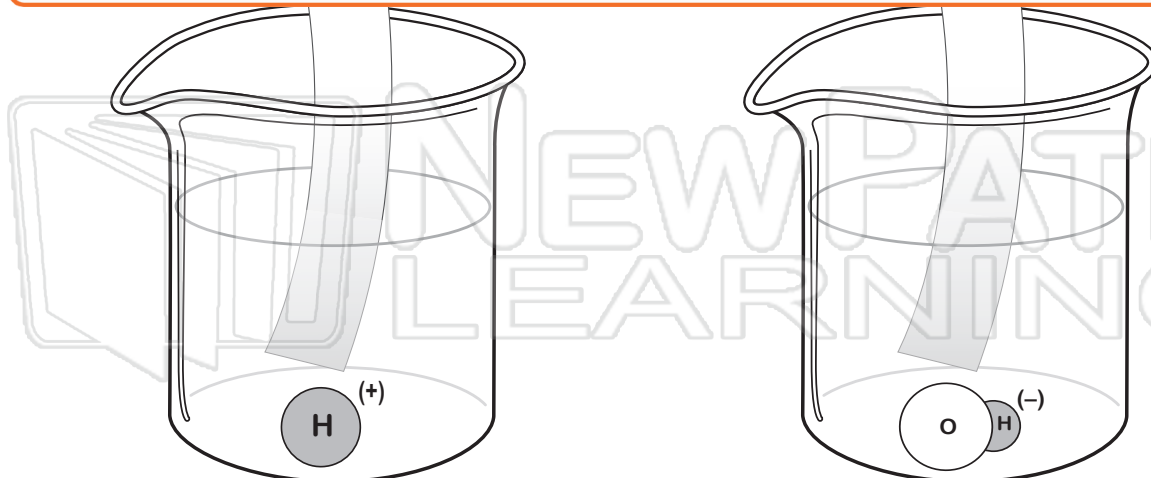
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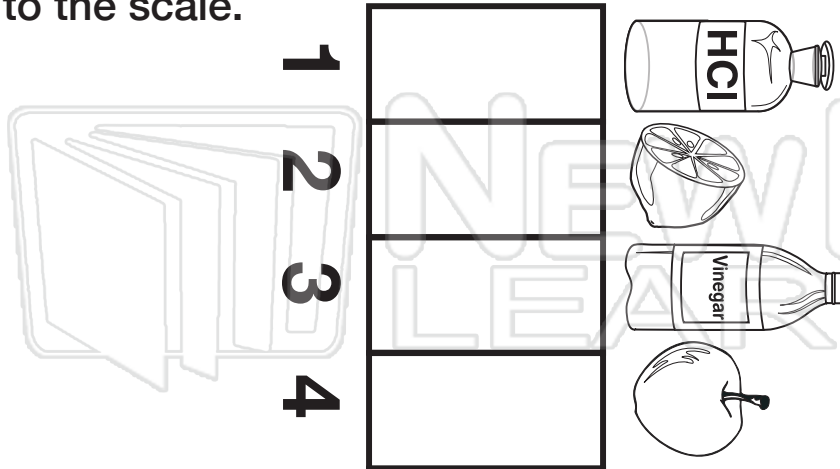




Acids & Bases

Answer Key - Example

Cut out and color the objects. Make a large **pH scale**. Use references, if needed, to help you place items along the pH scale. Find more items to add to the scale.



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