

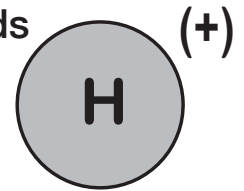


Acids & Bases

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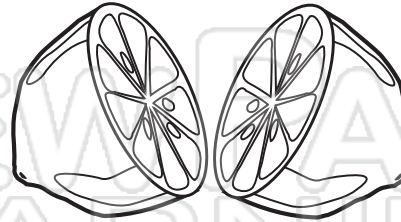
Name _____ Class _____ Date _____

An **acid** is a type of sour substance. When placed in water, acids release **hydrogen (H⁺) ions** into the water. The **more hydrogen ions** formed, the **stronger the acid**.



Some Characteristics of ACIDS:

- Acids **taste sour**
- Acids react strongly with metals
- Change blue **litmus paper** to **red**



Many of the foods we eat, such as lemons, contain weak acids.

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



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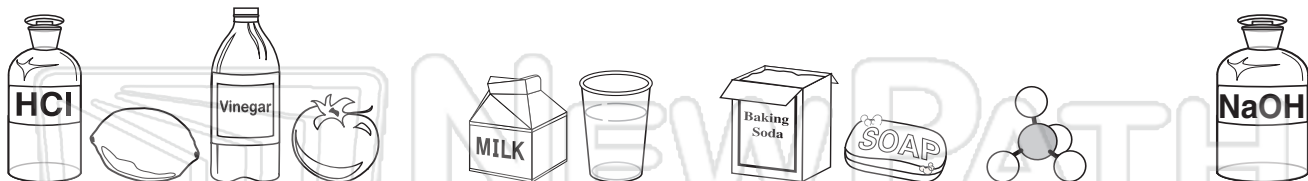


PREVIEW

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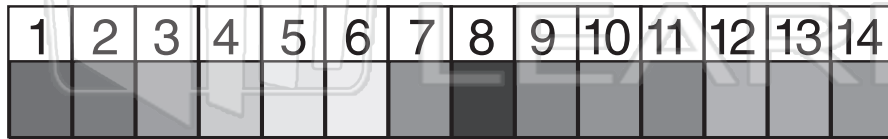
pH Indicators

pH indicators are chemicals that **change color** in the presence of an acid or base. 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**.

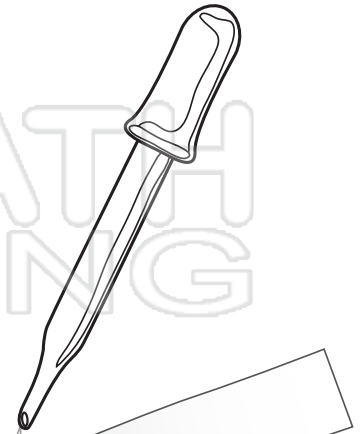
A strong **base** will turn the universal indicator paper **purple**.



strong acid

neutral

strong base

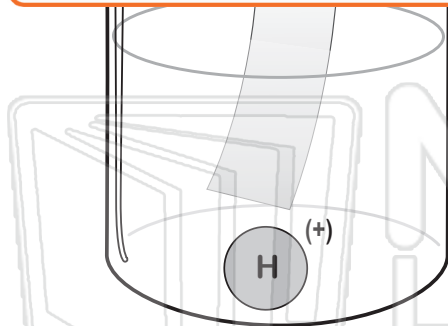


Litmus
Litmus
Blue
Red

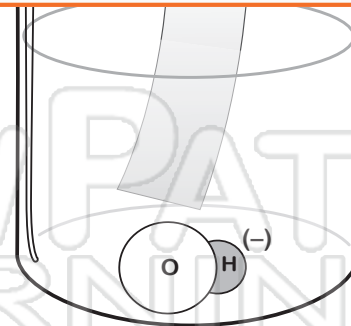


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acidic - blue litmus turns red



basic - red litmus turns blue



Acids & Bases

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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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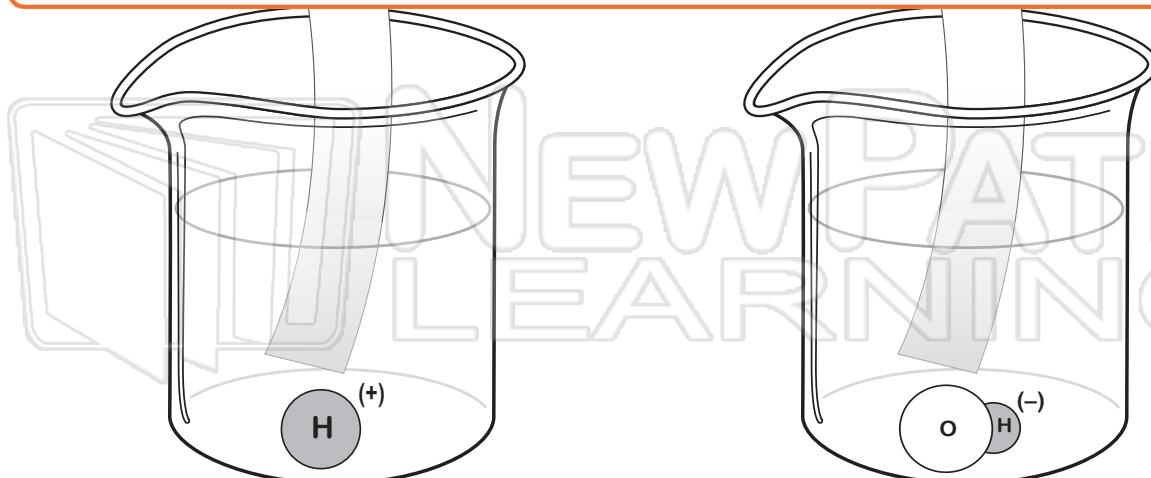
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Acids & Bases

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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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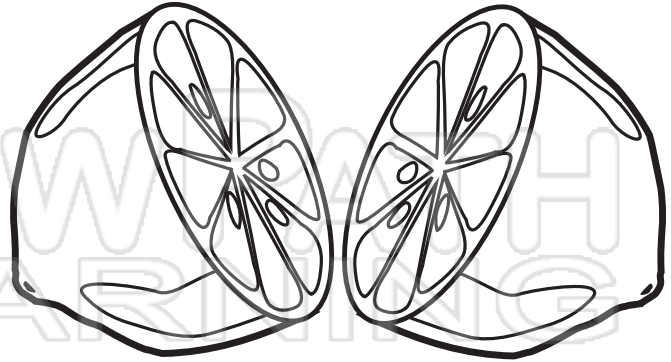


Acids & Bases

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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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cleaner
with Bleach





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 if a s

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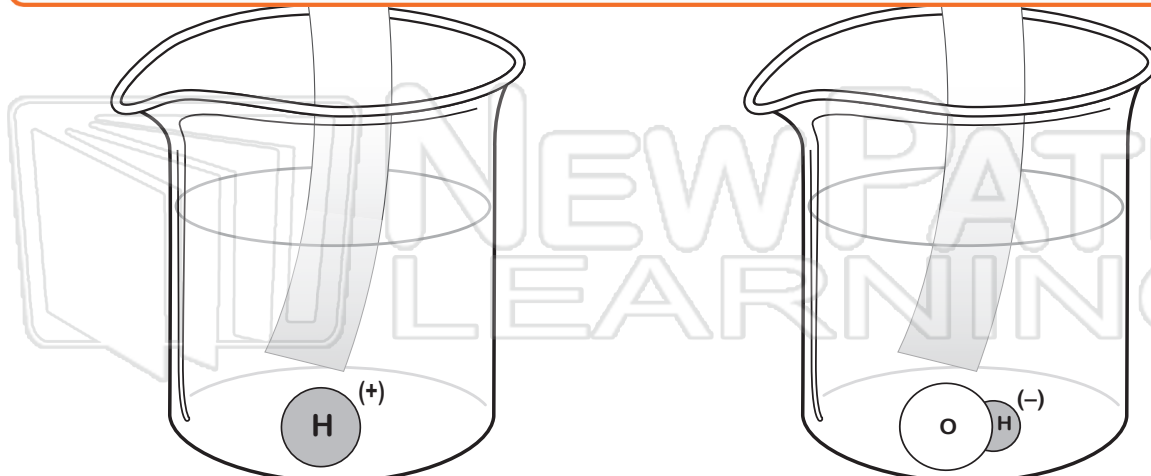
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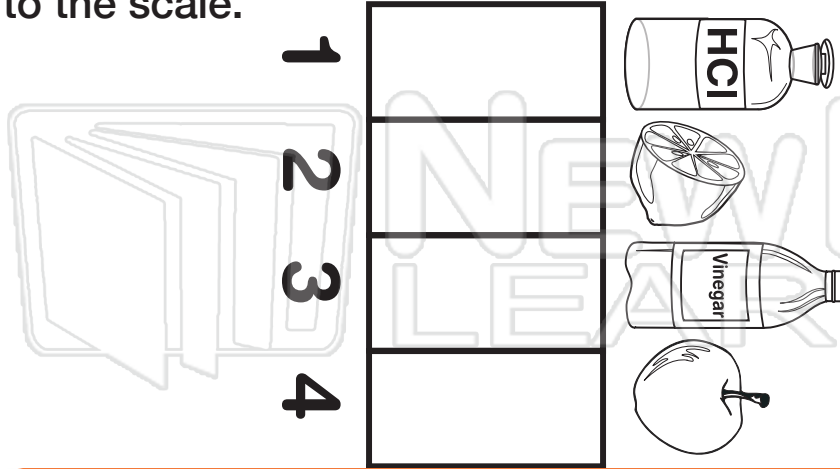
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Answer Key - Example

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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