

@ HOME SCIENCE DISCOVERY MISSIONS – NATURAL pH INDICATOR

What Do We Need?

- Red cabbage
- Water
- A small pot or pan
- A strainer
- 3 clear glass cups



Protocol

1. Cut 2-3 leaves of red cabbage into small pieces and put in a pan/pot.
2. Cover the leaves with water and cook for 40 minutes at medium heat. (NOTE: you can also use a blender to make juice with the cut leaves and water without cooking it!)
3. Allow the mixture to cool and strain (the colour of the liquid is dark purple).
4. Pour a small amount of the liquid into three different glasses.
5. In glass 1, add to the liquid tap water. (TIP: the solution should be a clearer purple/blueish colour).
6. In glass 2, add to the liquid a drop of vinegar and stir with a spoon. Observe the colour. Add more vinegar until the colour does not change anymore. (TIP: the solution should be red)
7. In glass 3, add to the liquid a drop of glass cleaner (ammonia) and stir with a spoon. What happens to the solution? Why?

YOUR MISSION REPORT

- How acidic/basic is the food you eat? Make a chart of different dishes that you have at home during a week.

- How acidic/basic are the product you use? (e.g., shampoo, soap, etc.) How does it affect your health? track it

- Where do you see science in this mission?

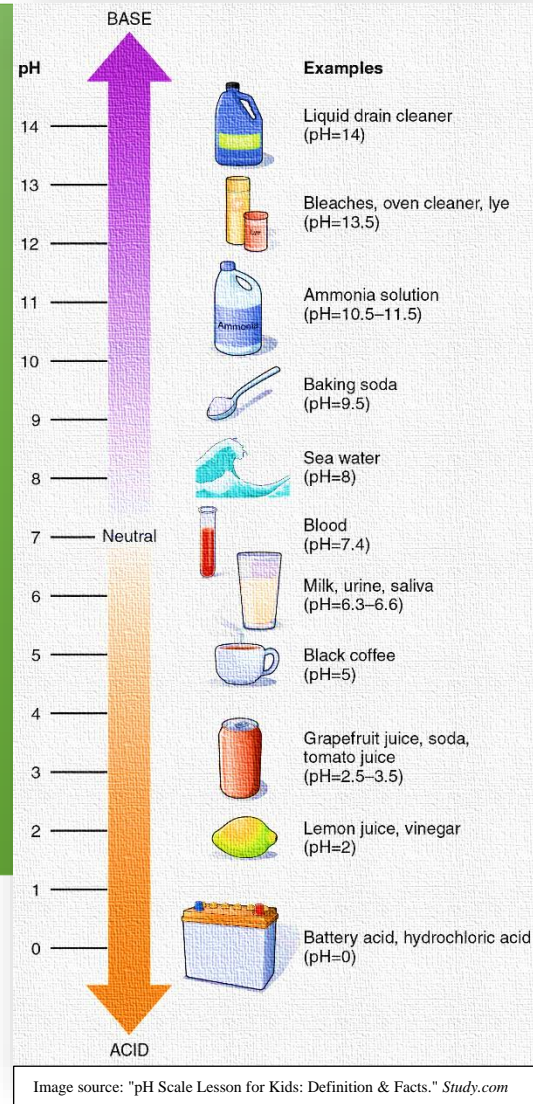


Image source: "pH Scale Lesson for Kids: Definition & Facts." Study.com

Learn more!



Video here:
<https://tinyurl.com/yapcu4py>

Did you know?
 Roses and other flowers can change colours depending on the pH of the soil they grow.

Student feedback - How did you like this mission?

- not at all
 not much
 a bit
 liked it
 liked it a lot
 liked it best

Family feedback - How did you like this mission?

- not at all
 not much
 a bit
 liked it
 liked it a lot
 liked it best

Did you use the 'Learn more!' resources? Yes No

What was good/bad about this mission?

