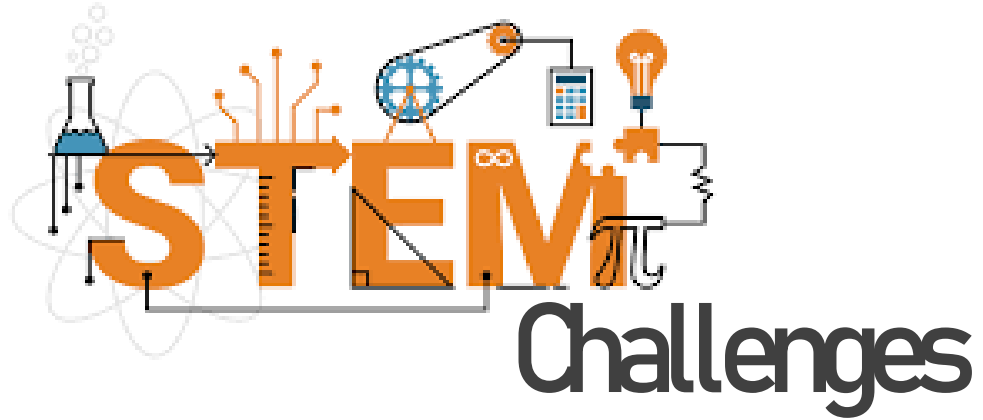


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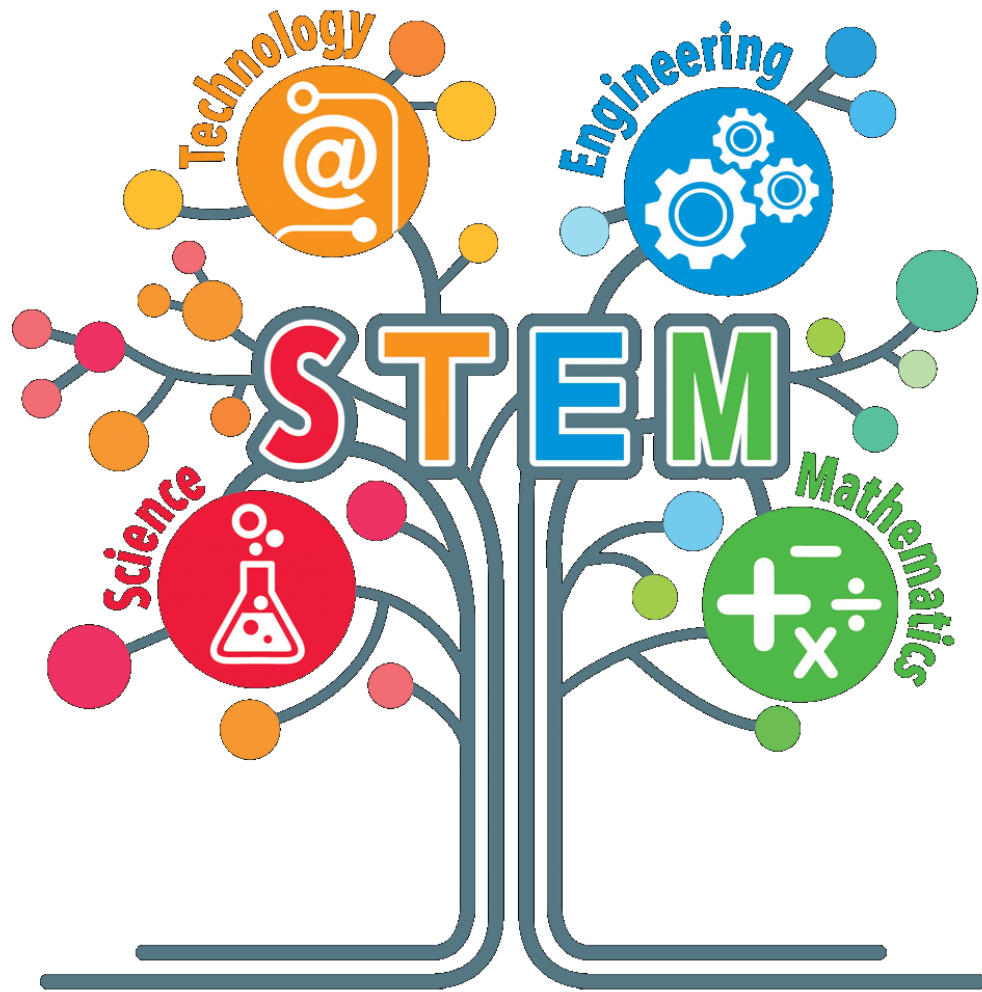
What's it like at the JCB Academy?

<https://jcb-academy.com/>



STEM Challenge

What is STEM?



STEM stands for -

Science

Technology

Engineering

Mathematics

These subjects are linked directly to each other and this task will highlight your skills in each of these subject areas.

Objectives

To understand what is meant by STEM. To demonstrate how to make different indicators

What is an indicator?

An indicator is a substance that tells you whether another substance is an acid or an alkali.

You may have met some acids, as they are in some food we eat, for example vinegar and lemon juice have acids in them.

We are going to look at natural indicators from foods and drinks.

Indicator 1

Cabbage Water



Resources

Water that has had red
cabbage boiled in it

Bicarbonate of soda

Tap water

Vinegar or lemon juice

https://www.youtube.com/watch?v=A5i-H9CSq_w

Objectives

To understand what is meant by STEM. To demonstrate how to make different indicators

Indicators 2

Turmeric



Resources

Turmeric

Bleach (DO NOT USE WITHOUT SUPERVISION)

Vinegar or Lemon juice

<https://www.youtube.com/watch?v=SLe1oolfum0>

Objectives

To understand what is meant by STEM. To demonstrate how to make different indicators

Indicators 3

Tea



Resources

Cold Tea

Bicarbonate of soda

Vinegar or lemon juice

<https://www.youtube.com/watch?v=VdpYMbq7tCk>

Objectives

To understand what is meant by STEM. To demonstrate how to make different indicators

Indicators in nature

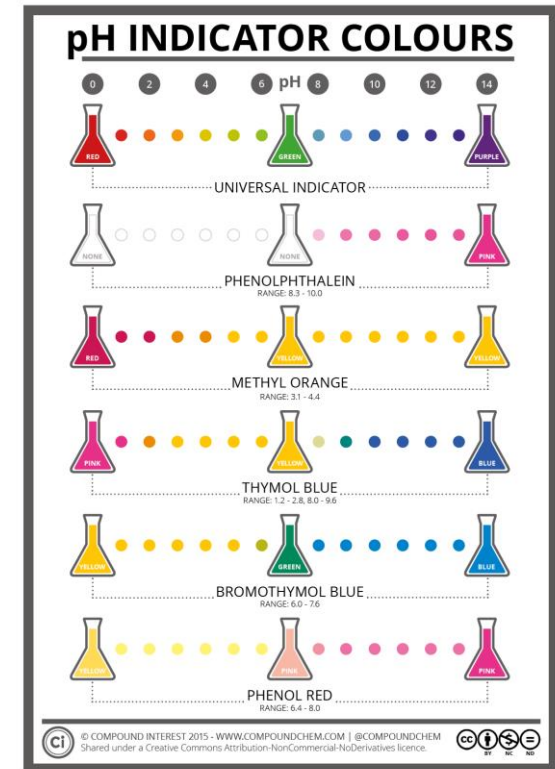
Can you find any other natural indicators?



Write about what you did

You can make a report to show what you did and what you found out about indicators

Then say where indicators can be found in nature.



STEM Challenge

What's next?

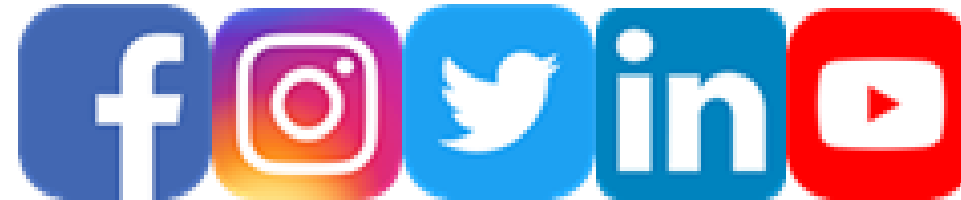
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