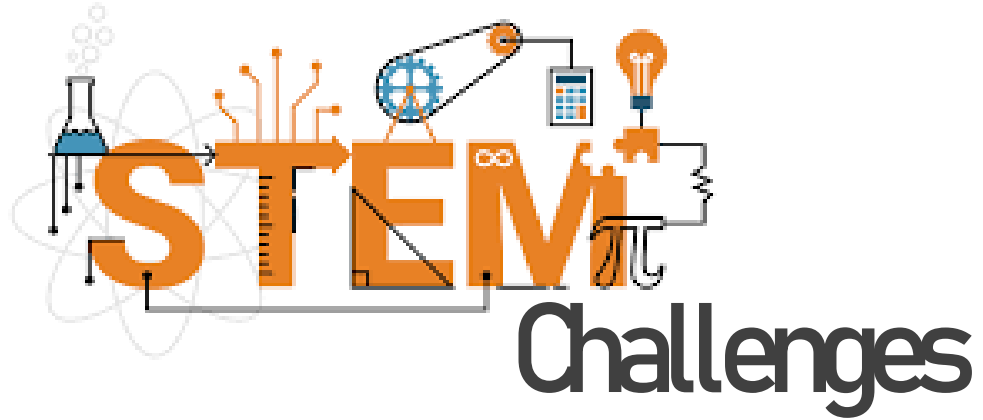


# THE JCB ACADEMY



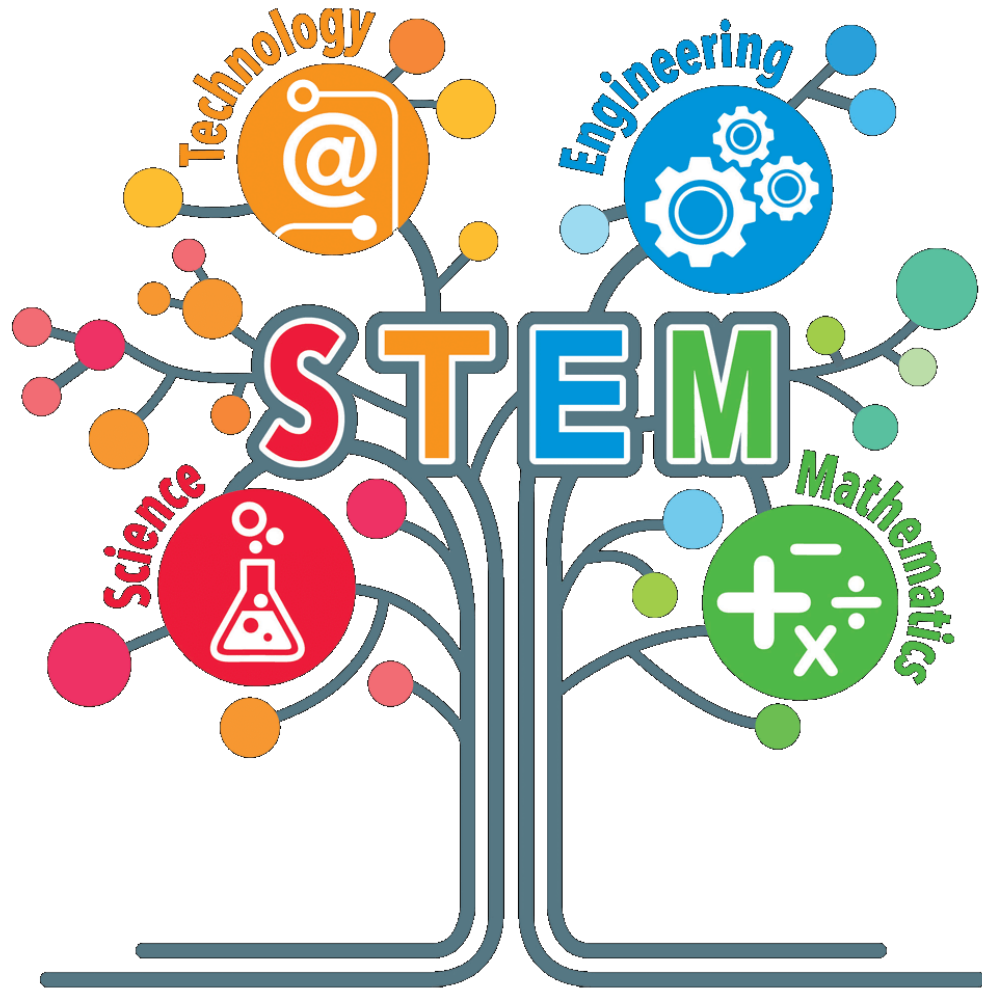
What's it like at the JCB Academy?

<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 solutions

# What is Dissolving?

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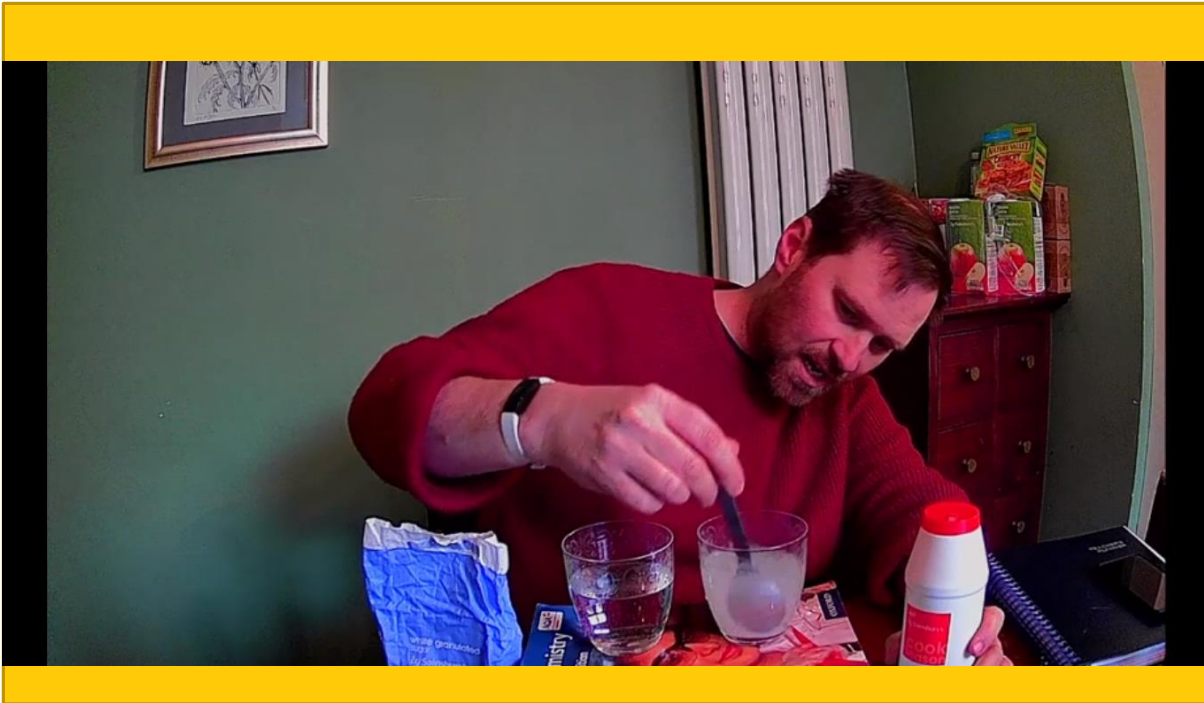
Dissolving happens when one substance is mixed in with another. Usually a solid into a liquid.

The solid looks like it has disappeared, but it has made a transparent (see-through) solution with the water.

Many substances can dissolve, you will have a look at a few of them.

# Dissolving Challenge 1

Salt Vs Sugar



<https://www.youtube.com/watch?v=8zszTv5vO7A>

## Resources

Salt

Sugar

2 cups or glasses (same size)

Water

## Objectives

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



# Dissolving Challenge 2

## Hot Vs Cold



<https://www.youtube.com/watch?v=JGdf6Ppf-C8>

### Resources

Sugar

2 cups or glasses (same size)

Hot Water (Be careful)

Cold Water

### Objectives

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

# Dissolving Challenge 3

## Skittles Colours



### Resources

Plate

Some water

Skittles

<https://www.youtube.com/watch?v=JD2LSIUSQPw>

### Objectives

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

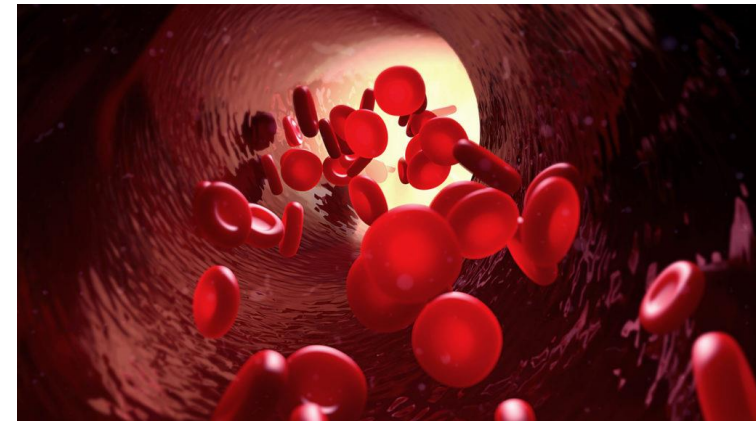
# Dissolving in Real Life

Where do we use dissolving?

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Where are solutions found in nature?



# Write about what you did

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

Then say where solutions are important in life and in nature.





# STEM Challenge

## What's next?

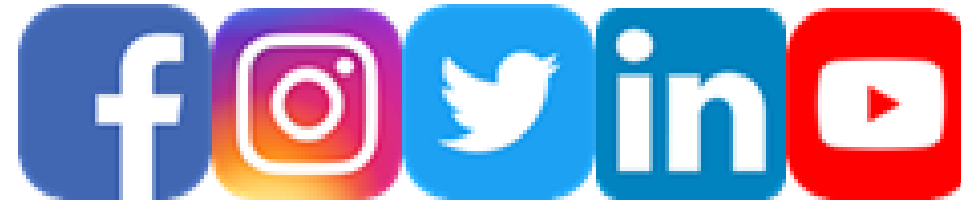
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