

THE JOURNEY OF SUGAR

with

Zayn & Zoey



Zayn and Zoey were visiting Aunt Ana in Brazil. They drove by many fields of tall sugarcane crop. They loved sugar like the rest of us, but from where do we get all this sweet sugar that makes our cakes and chocolates?

The curious twins thus visited a factory and learned the process of how sugar is made.

Let's Chat!

After reading the book, let's discuss the story together and see how much of the book you remember!

- What kind of a plant is sugarcane?
- How tall can a sugarcane plant grow?
- What is photosynthesis?
- What is 'bagasse' and what is it used for?
- What happens in the process of evaporation?
- What happens during the refining process?
- Which country is the world's largest producer of sugarcane?
- Can you name a few foods that have sugar in it?

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HANDS ON FUN!

Here are some fun activities related to sugar to do with children.



No-Bake No-Cook Dessert Jar

The first thing we think of when we say sugar is DESSERT!
Let's make jar filled with all things yummy and dive in.

*Adult assistance required for this activity.

Things you need:

- 3/4 cup fresh cream
- Dessert jar or glass
- 3/4 cup chocolate sauce
- Spoon
- 1 tablespoon sugar
- 2 cups crumbled bread or pounded biscuits
- 1/4 cup water

Steps to follow:



1. Put about 4-6 tbsp of the crumbled bread or pounded biscuits in the glass.

2. Add a little water and press it down to set it.



3. Add 4-5 tbsp fresh cream and sprinkle with sugar.



4. Top it with 4-5 tbsp of chocolate sauce.



5. Repeat this process till the glass is full to the brim. Refrigerate for about half hour. Your jar of sugary goodness is ready to dive in!

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Sugar Painting

Mandalas are a wonderful way to express the creativity within you. Let's make a vibrant one using sugar today!

Things you need:

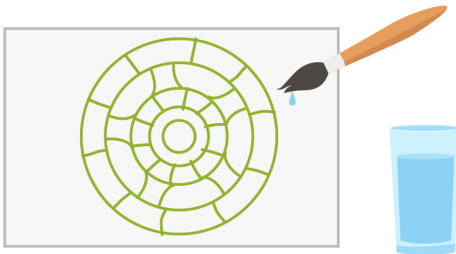
- Water colours
- Oil pastel crayons
- Thick white paper
- Paint brush
- Glitter (optional)
- Sugar water solution (3 spoons sugar, 2 spoons of warm water)

Steps to follow:



1. Draw a mandala art on an art sheet with pastel crayons. Ensure not to draw too intricate design.

2. Mix the sugar with water and stir until it has dissolved.



3. Apply the sugar mixture over the printable.

4. While the mixture is still wet, with a paint brush, dab water colours lightly. You'll see the paint spread and blend beautifully.



5. Decorate the mandala with your favourite colours, sprinkle some glitter, and let it dry. Your beautiful sugar mandala is ready to frame!

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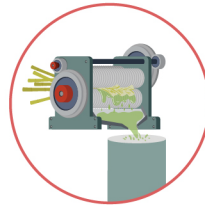


Cane to Cube

How does the long sugarcane turn into the sweet little cubes we have at home?

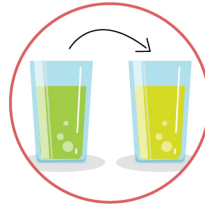
Revise the journey of sugar by matching each process with the correct description.

The juice is separated from the fibre.



Clarification

Syrup is cleaned using hot water and lime water.



Refining

Sugar syrup turns thick and gooey.



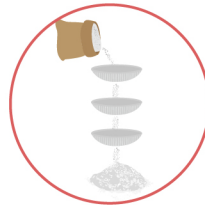
Packaging

Makes raw sugar crystals.



Extraction

Makes crystals of the same colour, shape, and size.



Evaporation

Packs the sugar to be delivered.



Centrifuge

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Sticky Candies

Don't our favourite sugar candies tend to stick together?
Find the candies stuck together in the exact sequence as given here.

Search horizontally and vertically and circle the sequence when you find it!

Reference Sequence:

