

RAINWATER HARVESTING WITH Zayn & Zoey



Zayn and Zoey visited Grandma Grey when she was getting a rainwater harvesting system set up at her farm. The twins learned all about rainwater harvesting, its benefits, and how it can be used in daily life. They also saw how all the equipment was set up on the roof and under the ground.

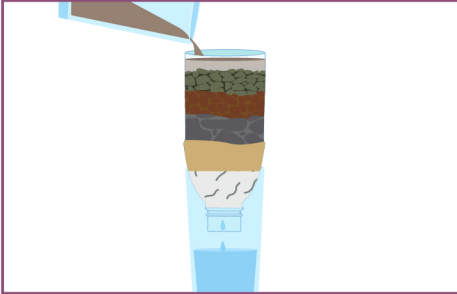
Let's Chat!

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

- What is rainwater harvesting?
- What is installed on roofs to collect the rainwater?
- What are leaf screens? What are they used for?
- Which machine purifies the water?
- Where is the clean water stored?
- What can the collected rainwater be used for?
- What is irrigation?
- How can we practice rainwater harvesting in the city?

HANDS ON FUN!

Here are some fun activities related to rainwater harvesting to do with children.



DIY Water Filter

Let's build a device that can clean dirty water using materials from around your home!

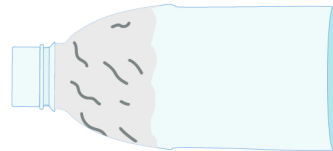
Things you need:

- 1 Litre plastic bottle
- 1 cup gravel
- 1 handful of cotton
- 2 cup pebbles
- 1 cup sand
- Muddy water
- 1/2 cup charcoal
- Cutter

Steps to follow:



1. Cut an empty bottle into half with a cutter. Turn the mouth upside down into the other half.



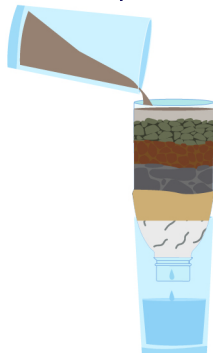
2. Stuff the mouth with cotton.



3. Add sand, charcoal, and gravel in the order over cotton.



4. Top it with pebbles to complete the filling activity.



5. Now pour the muddy water from the top.

6. Viola! The water that comes out of the mouth of the bottle will be cleaner!

RAINWATER HARVESTING
WITH
Layn & Zoey



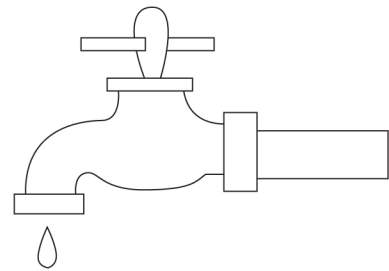
Save Water Chart

Let's conserve water starting with our homes. Colour the pictures and talk to your friends and family about the importance of saving water and show them ways to practice it with your chart.

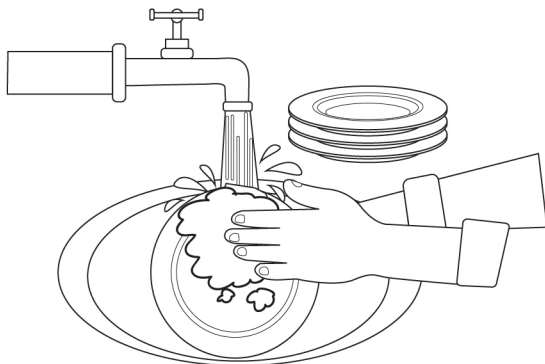
SAVE WATER



Take shorter showers.



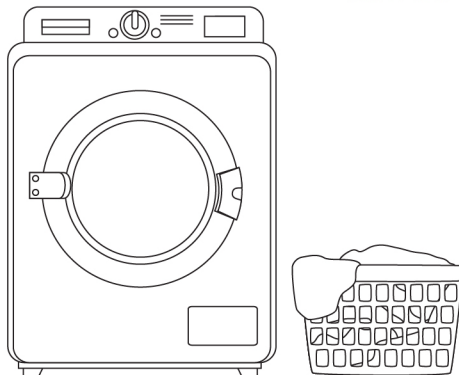
Fix leaky taps.



Do the dishes mindfully.



Turn off the tap while brushing.



Use the washing machine on full load.

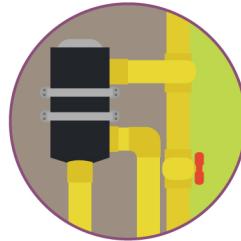
RAINWATER HARVESTING WITH Layn & Zoey



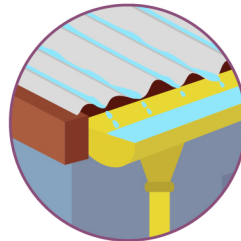
Rain to Tanks

Label the boxes in the correct order from 1 to 6 to show the rainwater harvesting process through different equipment.

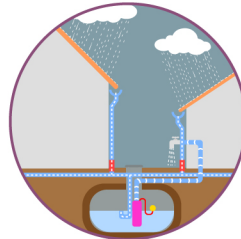
Collected water goes through a filter machine.



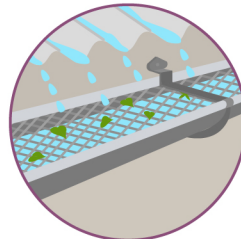
Gutters collect rainwater.



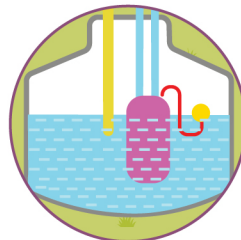
Clean water reaches the underground tanks for storage.



Leaf screens stop leaves and dirt from going in the pipes.



Pumps are installed so that the collected water can be sent back for use.



First flush diverter flushes out the water from the first rain.



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Rainwater Maze

Help the rainwater find its way to the underground tanks through the brick wall maze!

