Whitney Water Center Learning from Home

Episode 21: A Leaky Faucet

Introduction

It's not surprising to find a faucet that is leaking, what is surprising is the amount of water one leak can waste in a day. An easy experiment will help determine just how much water one small leak wastes over 24 hours. Leaks are frequently overlooked, but the dripping water is a waste of our natural resources and money! Fixing leaks helps the earth and saves money.

Experiment 1:

Materials

- Styrofoam cup
- Small empty plastic cup
- Water
- Timer or stopwatch
- Container that can measure milliliters or ounces

Link to video

- Facebook: https://www.facebook.com/scctrwa/videos/256783775735701/
- YouTube: <u>https://youtu.be/Uo8sZQWSuko</u>



How much water does a leaky faucet waste?

Use the following formula to calculate the amount of water that dripped from your faucet in one day.

How many milliliters of water dripped in one minute?

____ mL

_mLx.375 = _____gallons per day

If you are measuring in ounces, use this formula:

ounces

_____ ounces x 11.25 = _____ gallons per day

Here's how the simplified formula above was determined:

? milliliters	х	<u>1440 minutes</u>	х	<u>1 ounce</u>	х	<u>1 gallon</u> =	 _gallons/day
1 minute		1 day		30 mLs		128 oz	

