# 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: https://youtu.be/Uo8sZQWSuko


## 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?
$\qquad$ mL
$\qquad$ $m L \times .375=$ $\qquad$ gallons per day

If you are measuring in ounces, use this formula:
$\qquad$ ounces
$\qquad$ ounces $\times 11.25=$ $\qquad$ gallons per day

Here's how the simplified formula above was determined:
$\frac{? \text { milliliters }}{1 \text { minute }} \times \frac{1440 \text { minutes }}{1 \text { day }} \times \underset{30 \mathrm{mLs}}{1 \text { ounce }} \times \frac{1 \text { gallon }}{128 \mathrm{oz}}=\ldots$ gallons/day

