

A Science Freebie Lesson



FALL INTO
AUTUMN



Copyright © 2021 by Christine Zell, This Bit of Life LLC

All rights reserved. This book may be reproduced for family members living in one household. It may not be reproduced or transmitted in any other form or by any other means without written permission from the author.

Find Christine Zell on the web here:

Blog: thisbitoflife.com

Facebook: [thisbitoflife](https://www.facebook.com/thisbitoflife)

Instagram: [@this.bit.of.life](https://www.instagram.com/this.bit.of.life)

Pinterest: [thisbitoflife](https://www.pinterest.com/thisbitoflife)



Let's learn about fall with *The Fox Went Out on a Chilly Night*. There are beautiful autumn scenes in this book! Fall (or "Autumn") is the season of year when the leaves begin to change color! The air gets cooler and the days begin to get shorter. You will often see animals scurrying around to find food to store in preparation for winter. In the fall, the leaves change from green to beautiful shades of orange, red, and yellow! What causes this change? The answer...chlorophyll! Leaves need 4 things to create food (sugar) for the trees: sunlight, air, water, and chlorophyll. Chlorophyll is the green dominant pigment in the leaves that covers all of the other colors of a leaf during the spring and summer. When the days begin getting shorter, the leaves get less sunlight and stop making food for the trees. The chlorophyll then fades and the other colors (red, orange, yellow, and tan) will begin to show through! As the stems dry, the leaves will fall to the ground.



For copywork, have your child complete some or all of the passages below. Work on their level! Copywork is great practice for both handwriting and spelling.

The fox went out on a chilly night. He prayed for the moon to give him light. He had many-a mile to go before he reached the town-o.

For everything there is a season, and a time for every matter under heaven: -Ecclesiastes 3:1

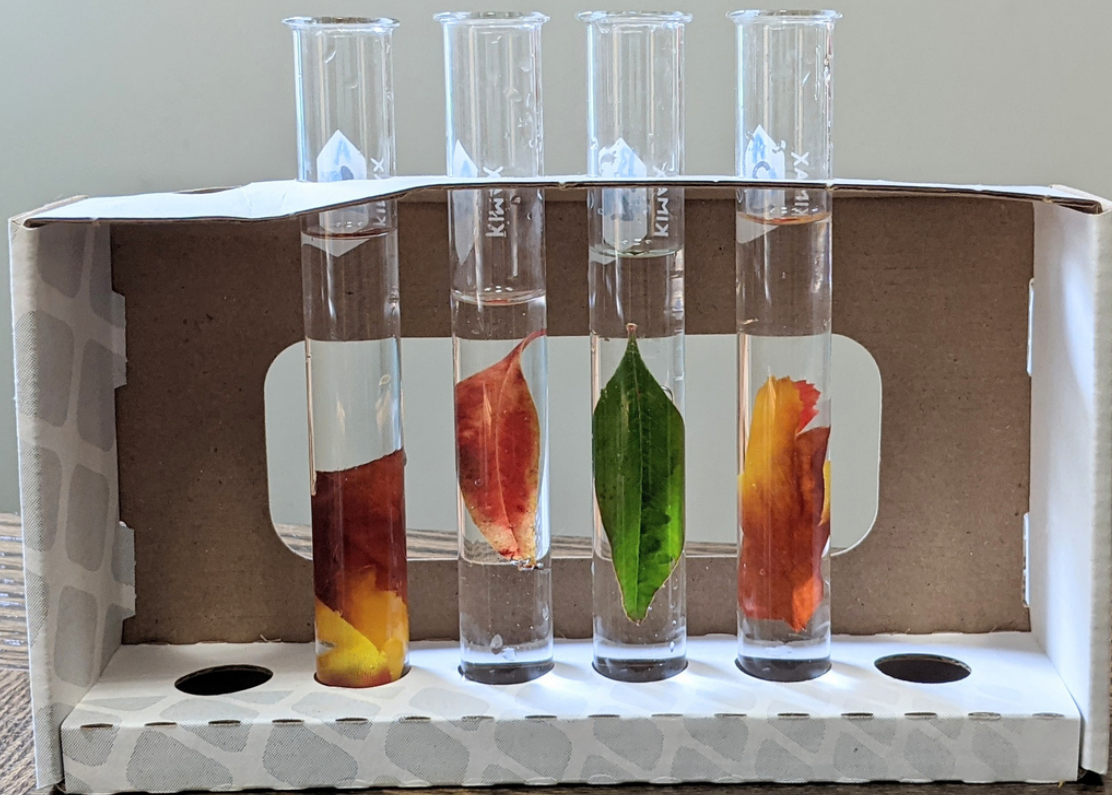
What a great opportunity for a rabbit trail into God's unchanging love! God created every season for a purpose, including different "seasons" in life. There will be seasons filled with joy and celebration as well as seasons of sadness and loss. Maybe you are in one of those seasons right now, but know with absolute surety, that God loves you and that is one thing that will NEVER change no matter what season of life you are in!



One of the best parts of fall is looking at all of the beautiful hues of reds, oranges, and yellows! Watch how leaves change colors for yourself! To do this experiment, Bring a pot of water to boil and boil the leaves for 5 minutes. Fill up small, clear containers with rubbing alcohol. Once the 5 minutes are up, place the leaves in the separate containers using tongs. Observe what color the alcohol is immediately after placing the leaves in, after 12 hours, 24 hours, and 48 hours. What happened? Why?

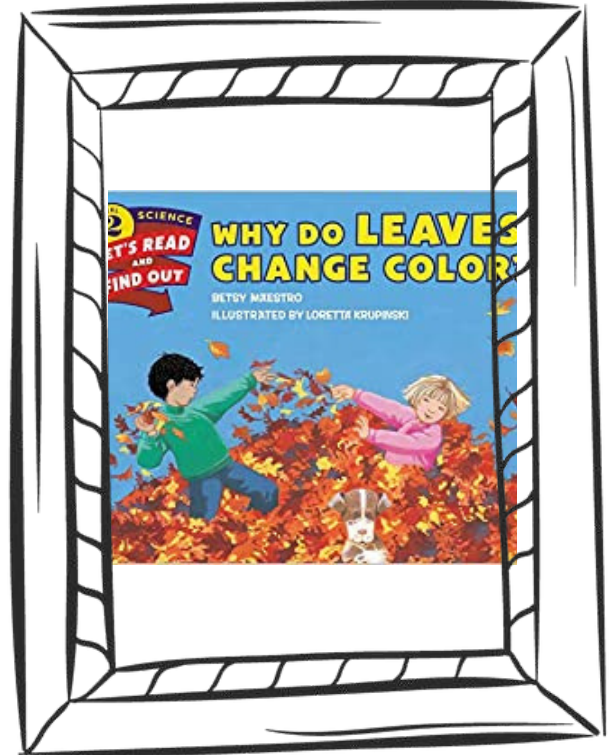
Supplies you will need:

- Pot of boiling water (parents only, please!)
- Rubbing Alcohol
- Small, clear containers
- Different colored leaves
- Tongs





Let's read more about leaves!
There are so many fun books to
read, but here are a few of my
favorites starting with
Why Do Leaves Change color?
by Betsy Maestro.

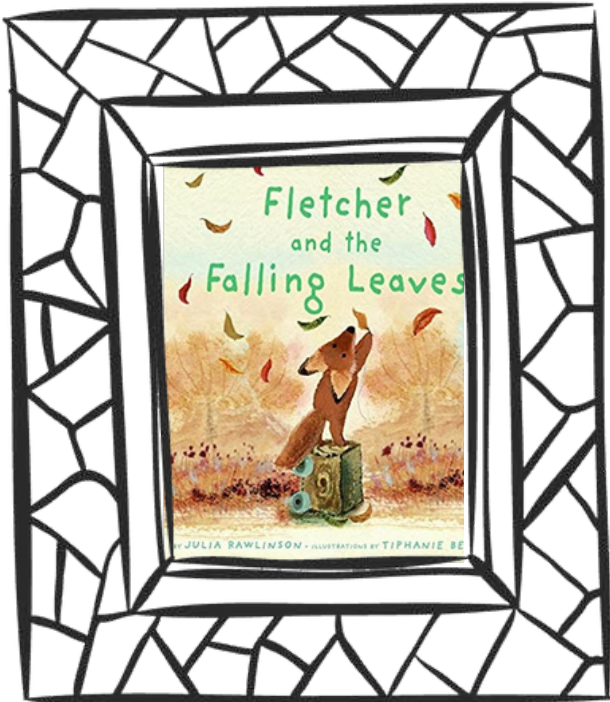


Continue reading
about leaves in
Leaf Man
by Lois Elhert.

Head on over to SciShowKids
on YouTube and search for Why Do
Leaves Change Colors in the Fall? to
learn more about the color changing
process!



Fletcher and the Falling Leaves
by Julia Rawlinson



The Very Last Leaf
by Stef Wade



Goodbye Summer, Hello Autumn
by Kenard Pak



Vocabulary:

- Chlorophyll
- Autumn

-Create a leaf collection! Identify various kinds of leaves & place them in a journal.

-Create leaf rubbings.

-Create tangrams out of leaves & see what geometric shapes you can build.

-Using contact paper and tissue paper, create a leaf shaped sun catcher.

-Create a leaf garland for your home by stringing together leaves you collect.

-Listen to various versions of the folksong The Fox Went Out on a Chilly Night on YouTube.