



# Lincoln's Experiments

SUMMER 2020 JR CONSERVATIONIST PROGRAM

Lincoln Hostetler | Junior Conservationist | Summer 2020  
Submitted to Jamie Kochensparger at [jkochensparger@co.lucas.oh.us](mailto:jkochensparger@co.lucas.oh.us)

## Animal Experiments

Lincoln chose the three animal experiments listed below.

### BUILD A MOSQUITO LARVAE TRAP

We build a mosquito trap and set it outside on a table near the house. We checked it periodically and counted mosquitos, larvae, and eggs.



### EXPLORING BUGS

We put a white sheet in the yard under a tree and shook the tree. Then we counted and looked at all of the bugs.



### POLLINATION ACTIVITY

Lincoln put Cheetos (gluten free of course) in a bowl and we constructed paper flower petals. We talked about how bees pollinate flowers. He pollinated the flower with his Cheeto fingers. We also examined some of our potted flowers and talked about the different parts.



## Community Experiments

### BIRD FEEDER

Using a toilet paper roll, Lincoln covered the roll in peanut butter and then rolled it in bird seed. He then carefully climbed up the “big-boy-adult” ladder and hung his bird feeder in the tree.



## Exploration Experiments

### EXPLORING THE NEIGHBORHOOD BY BICYCLE

Bicycling around the neighborhood and exploring bugs and plants.



## EXPLORING OAK OPENINGS IN JULY

During our exploration we saw lots of spiders, a dead animal carcass (only the fur and skull were left) and some deer and baby ducks.

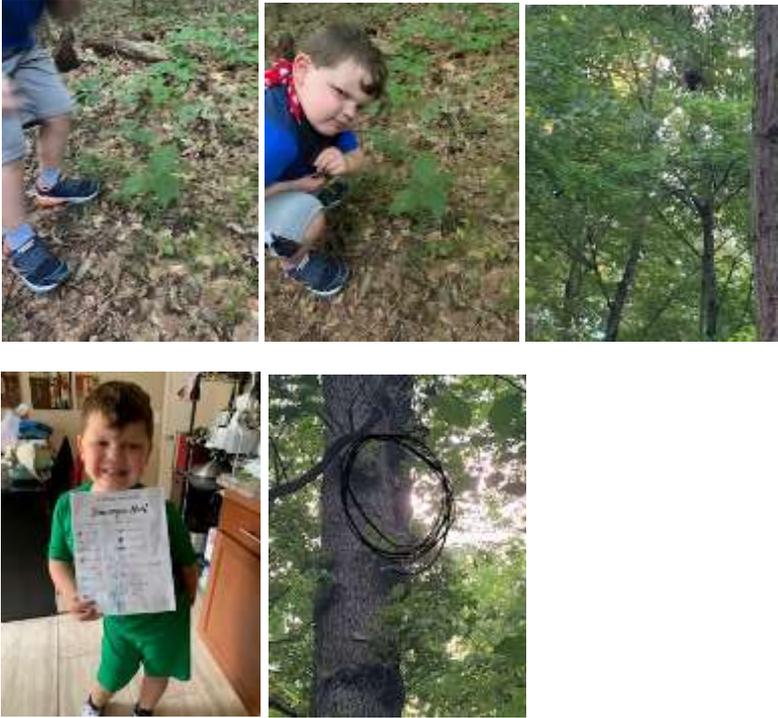


## SCAVENGER HUNT

Places we visited to find the things on our list:

- Wildwood
- Oak Openings
- Neighborhood (Holland)

The only thing we could not find was the lizard. Instead however, we DID find a racoon up in a tree. As we were walking the wooded trail at Wildwood, Lincoln yelled, "Hey! There's a monkey!" Assuring him we did not have monkeys in Toledo, we looked up to find a very large raccoon staring at us. What a GREAT find!

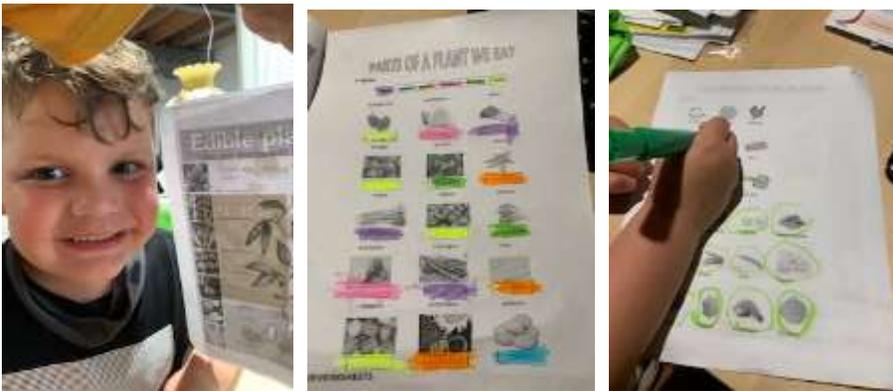


## Plants Experiments

Lincoln chose the three plant experiments listed below.

### FOOD FROM PLANT PARTS

Lincoln loved the story about soup! He also realized he eats a LOT of plant parts.



## LEAF TRACING

During his morning walk, Lincoln gathered leaves for his leaf project. He traced and colored leaves as well as doing crayon rubbings of all his leaves. We talked about all the leaf parts.



## SEED DISSECTION

Lincoln poured half a bag of dry lima beans in a bowl and filled it with water. He covered the bowl with plastic wrap and let it sit overnight. He loved this experiment because the next day, he got to use the “big-boy-adult” exacto knife to cut open his dry and wet beans. We identified the different parts and talked about how he could grow beans with the sprouted ones. He even traced the dry and wet beans and realized the wet ones get bigger.



## Soil Experiments

Lincoln chose the three soil experiments listed below.

### EARTHWORM GUIDE

We poured mustard water in two different spots in our yard but didn't find any worms.



### SOIL TEXTURING

Lincoln dug up some soil in our side yard. Following the soil chart test questions, he discovered that we have sandy loam in our yard.



### IDENTIFY YOUR SOIL TYPE

Lincoln found out that we have VERY sandy soil!



## Water Experiments

Lincoln learned about water and weather!

### RAIN CLOUD IN A JAR

This ended up being one of Lincoln's favorite experiments. Watching the colored water swirl around under the shaving cream was great.



### WATER PITCHER CHALLENGE

This experiment also taught Lincoln how to measure using a measuring cup! We don't get a lot of wasted water.



### WATER EROSION

Lincoln learned that when it rains and there is just dirt, the dirt gets washed away. If there is grass and rocks in the dirt, then the soil stays put better.

