

*Raven Hill Discovery Center is a 501(c)(3) tax-exempt corporation.*

**Mission:** Raven Hill provides a place that enhances hands-on and lifelong learning for all ages by connecting science, history & the arts.

## March 21, 2020—Activity #1: Drop speed

The simplest things can keep a kid’s mind active! Try dropping a single drop food coloring in a glass of water. How long does it take to diffuse completely and have all the water blue? What happens, if you try different water temperatures or put two different colors in at once or.....Let your kids ask the questions and see, if together, you can find the answers by experimenting.



1. Gather supplies



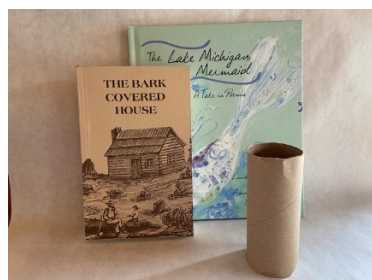
2. Add one drop of color



3. Observe

## March 22, 2020—Activity #2: Ramps

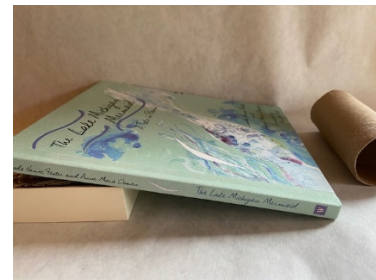
A toilet paper tube makes a great wheel and axle. Use books to build a ramp. How far does it roll? NO PUSHING! How can you make it go further? Can you get it to “stop on a dime”? Do you have to use the whole ramp? Can you tape a penny inside each end of the tube? What happens when you roll it then? What other cylinders roll further? Why?



1. Gather supplies



2. Make a ramp



3. Let it roll!

**PUT EVERYTHING AWAY AFTER YOU ARE DONE PLAYING!**

## March 23, 2020—Activity #3: Boats

Fold a piece of foil or paper into a boat. Add pennies one by one until the boat sinks. Count the number of pennies. Reshape your boat or make a different shaped boat. See how many pennies the second one holds. What happens if you make waves? Does your boat sink or stay afloat? Do high or low sides work best?



1. Gather supplies



2. Make a boat

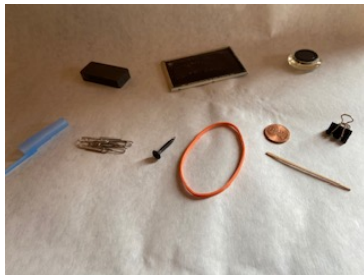


3. Test boat with pennies!

HAVE FUN AND, REMEMBER, CLEAN UP YOUR MESS AFTERWARDS!

## March 24, 2020—Activity #4: Magnets

Collect different refrigerator magnets and different objects to test. First, make two piles—things that attract (stick) to a magnet and those that do not attract to a magnet. Count how many of each you find. Second, find things that have parts that attract and parts that don't, like a pencil? How many did you find? Third, how many things can attract to a single magnet at one time? Fourth, use two magnets and see if they attract to each other through different things, like your fingers, a piece of paper, a popsicle stick, a piece of foil, a penny, etc. Stay tuned for more magnet fun.



1. Magnet supplies



2. What attracts or sticks?



3. What does force goes thru?

ENJOY AND, REMEMBER, PUT EVERYTHING AWAY, WHEN YOU ARE DONE BEING A SCIENTIST!