



# Brevard County Libraries

## Summer Reading Program 2022!

In this week's Teen Craft Packet, our theme is Explore New Depths: Submarine Science! Using common household items, create a submarine that dives and resurfaces.

Craft Packets contain a list of supplies and instructions. These packets can be picked-up at any branch within Brevard County during the week of the related theme and are available for curbside service.



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Storytime, STEAM, Craft, and Teen Packets developed by the Youth Services Department

# Explore New Depths: Submarine Science

## Supplies

Baby Carrots

Baking Powder (NOT soda)

Toothpicks

Large bowl of water

A screwdriver or other tool to carve a pit into the carrot

## Directions:

Cut the carrots in half. Drill a hole nearly all the way through the carrots in the center of the flat side.

Insert two toothpicks as the front and two at the back of the rounded side of the carrot (may need to adjust for balance). Pack the hole you drilled in the flat side with baking powder. Use a pencil to tamp it down. Pack thoroughly.

Place the carrot sub flat side down in the bowl of water. The carrot should sink to the bottom. However, once the baking powder begins to react with the water it should rise to the surface. The sub will continue to sink and rise as the water and baking powder react.

## Science!

The weight of the carrot causes it to sink. However, once the water and baking powder react, the carbon dioxide bubbles formed should push the sub back to the surface. At the surface the gas will vent, then it will sink again and rise again until the baking powder is used up. Again, a reminder, the toothpicks may need to be adjusted to balance the craft.

