



# SECOND DAY

## HERE'S WHAT'S HAPPENING AT CAMP!

### MOD MY MINI MANSION™

With the framework in place, it's time to power up. We added light fixtures to one of our Mini Mansion rooms using an LED and a switch. Then we explored smart energy for our smart homes, like geothermal power, rain barrels for water reuse and solar panels.

### ROBOTIC PET VET™

Today, we did urine tests! Not to worry, it wasn't real urine, but it was made with ingredients that showed different pH and glucose levels to mimic medical testing. Then we used biology concepts to add fur coats to protect and decorate our robo friends.

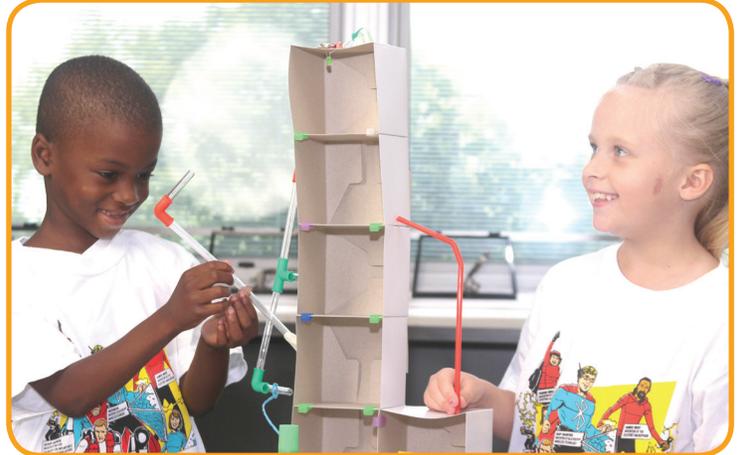
### OPTIBOT™

We all got our own Optibots today! Did you know the Optibot has sensors that tell the difference between light and dark? We experimented with track designs to find out how these bots sense the dark lines of the track.

Flip this paper over! It has part of a track on the back that your child's Optibot will follow. **Be sure to collect the rest of the daily newsletters to complete the track.**

### STICK TO IT™

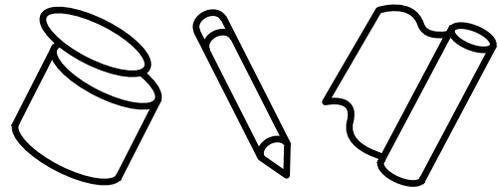
Today's challenge: Dance To Your Own Beat. We made a Dancing Dino using a mechanical gearbox. This was a fun reminder that inventors need to dance to their own beat and keep trying even if an idea doesn't work the first time. While we were thinking of ideas for the ultimate invention, we played with magnetic slime, which got our creative juices flowing!



## CAMP INVENTION AT HOME

### MAKE A DIY DRUM!

Find a tall, round item like a tennis ball container or metal coffee can. Wrap paper or fabric around the outside to decorate it. Put dry beans, pebbles or rice inside to make it a combo drum and shaker. If you don't have a lid, stretch a balloon across the top and secure it with a rubber band.



If someone tells you that your ideas won't work, grab your DIY drum and start dancing. Dancing to the beat of your own drum and embracing what makes you different is exactly what many National Inventors Hall of Fame Inductees have done to persevere!

### CONNECTION QUESTIONS

1. What did you find challenging today? How did you handle it?
2. Which materials have you been using to create your inventions?
3. What materials do you like to use most?

# Welcome to the Optibot Speedway!

This is just the beginning of the track. Be sure to pick up or print the rest of the daily newsletters to piece together the entire track.



Cut and tape edges together

A



Camp Invention®