



4H Tech Wizard Club

Felege Hiywot Center

“Looking for Direction to Life”
1648 Sheldon Street
Indianapolis, IN 46218
317-545-2245



4H Purdue
University
Extension
Marion County

4H Junk Drawer Robotics

With the weather turning cold, Junk Drawer robotics is perfect for 4Hers to explore in the winter months out of the cold.

Our first junk drawer activity is the robotic hand. NASA, National Aeronautics and Space Administration created the lesson. The kids get to create their hand out of cardboard, tape, straws, rubber bands, and string. They also use the metric system to create the parts of the hand.

Some kids started at different times, but got to discuss some of the uses of robotic hands or arms. This led some 4Hers to a discussion about the Rosetta’s Philea lander developed over the last 10 years by the European Space Agency, ESA. Some 4Hers demonstrated how much they already knew about this amazing engineering feat.

The whole group watched a great video about the strandbeest. I recommend you watch it with your 4Hers. Here are some of the questions we talked about and you can talk about with your child as well.

Strandbeest Evolution, Youtube.com
<http://www.youtube.com/watch?v=MYGJ9jrpbvg>

Discussion questions:

- How was the strandbeest powered?
- Why did the engineer choose to test the strandbeest in that location?
- What did you notice about the way it moved?

While working on the 4H projects, the kids make amazing connections to science and engineering. It’s amazing to see what they can do.

4H Tech Wizard Meeting Times

Felege Hiywot Center
Saturdays, January 17th and 31st
Saturdays, February 14th and 28th
Saturday, March 14th
9:30 am-11 am
1648 Sheldon St.
545-2245
3rd-8th Grade Students
Judie Meier, 4H Tech Wizards Program Assistant
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Olivia and Dylan work together to build a robotic hand



Zavier shows off his design



4H Tech Wizards working hard on their project

4H Pledge

I pledge..

my *head* to clearer thinking,
my *heart* to greater loyalty,
my *hands* to larger service, and
my *health* to better living for
my club, my community,
my country, and my world.