



Walworth County 4-H Cloverpatch Activity

Career Connections

This Cloverpatch issue corresponds to the October 2020 *Monthly Interactive Meeting Challenge!*

Read about the two “careers” speakers below who we’ll meet during the October 21 *Monthly Interactive Meeting*. Then, complete one of the activities (below) that relates to their jobs. Take a selfie showing your activity in progress and post it on social media with the hashtag **#Walco4HFamilyChallenge**. Then, participate in *Monthly Interactive Meeting* and report your participation at **THIS LINK** (<https://forms.gle/zyVyaWq6x3y8kY8M9>) to earn an entry into the county 4-H Family Challenge prize drawing! Be ready to tell a little bit about your activity experience or your plans during the meeting! You can sign up for the meeting **HERE:** https://uwmadison.zoom.us/meeting/register/tJMtdeCqzkvG9Ah3FSRt78Jwy3Pqfs_7XW.



Connecting YOUTH with Science

Liz Jesse always loved science when she was growing up. In fact, she originally wanted to be a veterinarian. But, as she got older, studied, and discovered more about science careers, she worked as a biotechnology lab technician and a chemistry teacher. She knew that what she loved more than anything else about science was sharing it with others, so her current job is perfect for her! Today she’s a Science Outreach Specialist at UW-Madison Biotechnology Center where she gets to design, lead, and teach

hands-on science workshops for youth, grades K-12! Liz says that she loves helping youth become scientifically literate since it arms them with tools to approach problems with unbiased perspective. In Isaac Asimov’s words, “If knowledge can create problems, it is not through ignorance that we can solve them.”

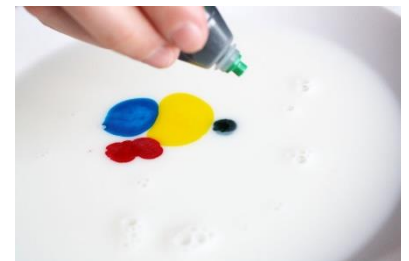
Activity: Milk Fireworks

Supplies needed:

Muffin tin or ice cube tray
Cotton Swab or Toothpick

Food Coloring
Liquid Dish Soap

Milk



Instructions:

1. Fill a few wells of an ice cube tray OR a muffin tin with your favorite type of milk.
2. Put 1-2 drops of food coloring into the center of the well. Do not mix the food coloring and milk.
3. Dip a cotton swab or toothpick into a cup of liquid dishwashing detergent.
4. Take the dipped swab or toothpick and hold it in the milk. *What is happening to the food coloring? Why is this happening?*

5. Let's keep exploring...try it with different types of milk or try it with water instead.

Does the food coloring move in the milk differently than in the water? What is in milk that is not in water? Can you see a difference in what happens in different types of milk (skim, 2%, etc.)? How do you explain this?

Source: "Milk Fireworks." BioTrek, UW Biotechnology Outreach Program - Cassandra Immel



Designing & Building

Steve Basso loves to design and build things out of wood. He found his passion and love for woodworking in a high school shop class and taught himself from there. He gained experience working for a building company, and then started his own business in 2004: *Steve's Wood Products*. Steve is a one-man show whose shop is located at his Delavan, WI home. He custom builds all kinds of things for his clients: kitchens, bookcases, built-ins, and more! He helps people turn their decorating and furniture ideas into realities.

Activity: Build a Wooden Birdhouse or Feeder

Directions

Develop your woodworking skills by working with an adult helper (as needed) to build a wooden house or feeder for birds. Supplies will vary depending on which design you select. If you are looking for a very easy building project, consider seeking out a kit. Some supplies you may need include: inexpensive wood pieces cut to fit your chosen pattern, saw, hammer/nails or drill/screws/screwdriver, measuring tape, pencil, sandpaper, and exterior paint or sealer.



Some Design Sources

- *Birdhouse Basics Bulletin #7117*. University of Maine Cooperative Extension. <https://extension.umaine.edu/publications/wp-content/uploads/sites/52/2015/04/7117.pdf>
- *Basic Birdhouse*. Brian G. Lowe's. 2019. <https://www.lowes.com/n/how-to/basic-birdhouse>
- *\$2 Cedar Birdfeeder*. Anna White. Available at: <https://ana-white.com/woodworking-projects/2-cedar-birdfeeder>
- *Hopper Birdfeeder Plans*. Birdwatching Bliss. <https://www.birdwatching-bliss.com/free-bird-feeder-plans.html>

Reflect

What did you build? Why did you choose that design? What did you learn during the building process? What was challenging? What are you most proud of?



Handout created by Debbie Harris, 4-H Youth Development Educator, Walworth County, WI. 9/2020. October, 2020 Issue.