



4-H Cabin Fever Friday!

July 10, 2020

4-H is an opportunity to try new activities and learn new skills. If you're looking for an idea to pass the time and want to try something new, check out the projects below. 4-H Cabin Fever Friday will be created weekly with a

variety of projects and skill levels highlighted each week. Please remember the physical distancing and health safety guidelines while doing these projects. If you would like to take a picture of you or your family doing one of these 4-H projects, feel free to email it to me at holly.luerssen@wisc.edu, with the subject line: 4-H Cabin Fever Friday Photo and each family will be entered into a drawing at a later date for some special gifts!



Langlade & Lincoln Counties

COLOR SPLASH MAGIC

Did You Know?

Tie-dyeing can make a big mess. It takes a long time and is often very messy. Here is a way to decorate your shirt easily with lots of colors while you test a solvent and learn about diffusion.

Hint: This activity is best done outside.

What To Do...

1. Use markers to color an area of your garment with lots of bright colors for the best effect.
2. If you are decorating a t-shirt, place a piece of cardboard between the front and back so colors do not bleed through.
3. Pick a colored area to 'splash'. Place it over the cup and secure with a rubber band or two.
4. When shirt/item is finished, fill spray bottle with the alcohol and 'splash' (spray) the garment where you want the colors to move and blend.
5. The more you spray the more color changing will happen. Try different amounts of 'splash'.
6. Remove rubber bands and hand item to dry.

Reflect:

What happens to the marker colors? When the item dried did the colors change?

Hmmm.....

Why did the colors move? Isn't it permanent?

The ink in a permanent marker is "permanent" because it does not dissolve in water. It does, however, dissolve in alcohol. It is hydrophobic. As the garment absorbs the alcohol, the alcohol dissolves the ink and diffuses (moves) it through the cloth. The ink moves from areas of high concentration to areas of low concentration. As the colors spread out, they will also mix with each other and form new colors.

Learning Outcomes...

- Project Skills: Exploring matter diffusion through die and solvents
- Life Skill: Managing Resources
- Success Indicator: Recognizes properties of ink through diffusion to create wearable art.

Supplies...

- White or light-colored cotton t-shirt, bandana, socks or other items
- Colored permanent markers
- Large piece of cardboard
- Large plastic cup
- Rubber band
- Spray bottle
- 70 or 90% isopropyl alcohol

Note

To set the colors, put the garment in a hot clothes dryer for 15 minutes. After this, the item can be washed with your other clothes.

Source: Science Fun with Kitchen Chemistry—Ohio State University

Wand Making

Every magician needs a magical wand.
Even you!

Time: 10-15 minutes

Supplies:

- ♦ Wooden dowels
- ♦ Glue
- ♦ Styrofoam Balls
- ♦ Misc. Decorations



Directions:

1. Stick the Styrofoam ball onto the dowel.
2. Decorate your wand.

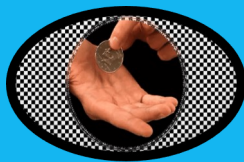
Reflect:

- What do you think magician's have wands for?
- Can you name some famous magician's that have wands?

Multiplying Coins

Supplies:

- A Quarter
- A Dime



Directions:

1. Show spectators a dime and an apparently empty hand. In the blink of an eye, you're now holding a dime and a quarter.
2. Secret: it's all in how you present the dime.
3. Hold the dime at the ends of your thumb and middle finger. Hold the quarter horizontally just behind the dime with your thumb and middle finger.
4. When you display the dime and hide the quarter behind it, try to keep spectators eyes level so there's little chance that they'll see the quarter.
5. When you are ready to produce the quarter, simply close your hand and let the dime and quarter fall together. Spectators will hear two coins jingling in your hand. Open your hand to reveal two coins.

TABLE CLOTH MAGIC

Supplies:

- * Dinner Plates
- * Glasses
- * Table Cloth without any hems
- * Flat Tabletop



Prior To Activity: (Tips)

The secret to your success is to use a table cloth without hems. Choose a table that is perfectly flat and has a straight edge. Cut a square piece of material that is slightly bigger than the table. Look carefully at the bottom of the dinner plates or glasses you use, be sure they are smooth. When selecting plates, glasses and utensils, remember heavier is better.

Steps:

1. Spread the tablecloth on the tabletop making sure there are no wrinkles. Place the cups, plates, and utensil on top of the table cloth. Place closer to the edge of the cloth.
2. The trick is to grab the ends of the tablecloth with both hands and quickly straight down to the ground. The secret is ... a quick and downward motion.
3. The only way to make this work is to just do it! Start only with one plate, then add one more item.

Reflect:

Do you think it matters how heavy the plates and glasses are?

What would happen if we pulled the table cloth slower?

How does Sir Isaac Newton's First Law of Motion work here?



Complete a short survey regarding the project newsletters and be entered into win fantastic 4-H items.

<https://bit.ly/CF4HSurvey>

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