

COFFEE FILTER RAINBOWS

PURPOSE: Children will observe that colors can mix and blend.

MATERIALS:

Book Topics: color, mixing colors, color wheels

Coffee filter or paper towel cut in a circle

Watercolor markers (not permanent markers)

Small cup, water, paper clip



PROCEDURE:

1. Place a coffee filter on the table for each family member or family friend.
2. Draw a two-inch circle in the middle of the filter. Do not draw inside this small circle.
3. Draw whatever you want on the middle of the filter. Make it colorful.
4. Fold the coffee filter in half so it looks like a taco.
5. Fold the coffee filter one more time so that it looks like a slice of pizza.
6. Pour 1/4 cup of water into the plastic cup.
7. Place the tip of the coffee filter (wide part first) into the cup so that it touches the water.
8. Fasten the filter to the cup with a paper clip. Watch the water climb up the filter.
9. Remove the filter from the cup and place it on a paper towel to blot the excess water.
10. Unfold the filter to see the changes. Discuss with family/friend how the coffee filters changed.

HOW IT WORKS: Most markers are made up of different colors that can be separated. Water caused the colors to dissolve and to travel up the length of the filter paper. Different colors dissolve at different speeds. Colors run together to make new colors.



WRITING PROMPT

You just observed how colors mix and blend.

Think about what happens when you mix colors together.

Write a story about a new color you discovered. What colors did you mix together? Give your new color a name.

Parent Signature: _____

**FAMILY SCIENCE PROJECT**

Date: _____

Name: _____

Teacher: _____

Hypothesis (What do you think will happen?)

Date/Observation:

Conclusion: (What you learned or discovered):

*(*You may continue your observation on another sheet. You may want to create a graph to record your data.)*

For the reading portion of Family Science, you may choose to read a book or an article, OR you may use the Internet in order to find some background information concerning this Family Science Project. If you read a book or an article, please include the complete title and author. If instead you looked up the information on the Internet, please include the complete website.

We read the following book, **OR** researched the information on the Internet:

Book Title: _____ Author: _____

Complete Website: _____

Writing Prompt (minimum 3 sentences)
