

The recipe for Ice Cream:





- 1 Pour 1 blue cup of crushed ice into the bowl.
- Add 4 red spoonfuls of salt to the ice. Did you know that salt lowers the freezing point of ice? Change the temperature and take a big step toward creating an irresistible ice cream!
- Put the lid on the bowl. Be sure to seal the bowl by covering the spout with the fat, curved part of the lid. Hold the lid in place as you shake the bowl from side to side (rather than up and down) for several minutes, until the salt completely mixes with the ice.
- 4 Add the following ingredients to a plastic zip-top bag:
 - 1 Orange cup of half-and-half

• 1 Yellow spoonful of vanilla extract

- 1 Red spoonful of sugar
- 5 Seal the bag on your ice-cream ingredients.
- Make sure to place this bag inside another bag to lock all the contents inside.
- Place the bags inside the ice-filled bowl and close the lid. Shake the bowl from side to side for 5 minutes to allow the liquid inside the bags to solidify into ice cream.
- Remove the lid from the bowl. Check the consistency of the ice cream by sampling it with a spoon.
- Scoop out the ice cream into paper cups and enjoy a cold treat with your friends!



Let's Make a Color Explosion

Tools:





Extras: Milk, liquid dish soap, and red, blue, yellow, and green food coloring

The recipe for a Color Explosion:

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- 1 Pour 1 red cup of milk into the bowl.
- Near the center of the milk, add 1 drop each of red, blue, yellow, and green food coloring. Leave an inch of space between each color.
- When the colors hit the milk's surface, do they spread apart or remain in the form of droplets?
- Mow, squeeze a drop of liquid soap in the center of the bowl.
- 5 Watch as the colors swirl and interact. Do you see any color patterns in the milk? Do the colors mix to create new colors?
- 6 Here's what happened: When you added the soap to the milk, the molecules in the soap tried to "connect" with the fat molecules in the milk. As these molecules jostled for position, the colors were taken along for a rollicking ride!



Let's Make Color Crackers

Tools:



Extras: Plate, graham crackers, vanilla frosting, wooden craft sticks, and yellow, red, and blue food coloring

The recipe for Color Crackers:



- Place 3 graham crackers on a plate.
- Scoop out 3 red spoonfuls of vanilla frosting and place them on the plate beside the crackers. Leave space between each scoop.
- 3 Add 2 drops of yellow food coloring to one scoop, 2 drops of blue food coloring to the second scoop, and 2 drops of red food coloring to the third scoop. Mix the colors into each scoop with a wooden craft stick. Red, yellow, and blue are called primary colors.
- 4 Next, scoop a small dollop of yellow frosting and place it on one half of a cracker. Place a small dollop of blue frosting on the other half of the cracker. What color do you think you could create by mixing blue and yellow?
- 5 Try it! Use the craft stick to mix the yellow and blue frosting. It's green!
- 6 Repeat steps 4 and 5. This time, mix red and blue frosting on one cracker, and red and yellow frosting on the other. What new colors did you create with these combinations?
- Enjoy the taste of new colors by sharing these iced confections with your friends!



Let's Make an Incredible 5 Expanding Bag

Tools:



Extras: Zip-top sandwich bag, baking soda, warm water, white vinegar, paper towel

Note: Perform this experiment near a sink or outside for easy cleanup.

The recipe for an Incredible Expanding Bag:



- Pour 1 yellow cup of warm water into a sandwich bag.
- 2 Add 1 orange cup of vinegar to the water. Zip the bag halfway closed.
- Measure 3 orange spoonfuls of baking soda into the center of a paper towel. Gather the corners of the paper towel to make a pouch.
- Hold the pouch of baking soda in one hand. Carry the sandwich bag over to the sink—this next step might get messy.
- Now, drop the entire pouch of baking soda into the bag, zip the bag completely closed, and stand back.
- 6 The bag should slowly expand until it pops! Why do you think that happened?
- Here's why: When an acid (vinegar) and a base (baking soda) meet, they create a gas called carbon dioxide. The bag was not able to contain the carbon dioxide made by the mixture of vinegar and baking soda, and this caused a mini explosion.
- Make sure to clean up the sink after you complete the activity!



Let's Make Everyday Birthday Cake

Tools:



Extras: Muffin, frosting, premade pudding, raspberries (or other berries), spatula, bread knife

The recipe for Everyday Birthday Cake:



You don't need to be an expert baker to make a party-worthy birthday cake—all you need is the right ingredients (and an adult to lend a helping hand).



- First, have an adult cut your favorite-flavor muffin in half, separating the muffin top from the muffin bottom. Next, measure out the following quantities:
 - 1 Red spoonful of frosting
 - 1 Orange cup of prepared pudding
 - 1 Yellow cup of raspberries
- 3 Add a layer of pudding to the bottom half of the muffin, followed by a layer of raspberries, and then another layer of pudding.
- Replace the muffin top to close the "cake."
- Next, use a spatula to spread frosting on the top of the cake. Use any remaining berries for decoration.
- 6 Enjoy your celebratory dessert! Today may not be your birthday, but you can still eat like royalty.