



2021 Virtual Farm Show Activities

Color Explosion

Milk, food coloring, and soap mix to create a rainbow of color. In this simple chemistry activity, soap molecules connect with the fat molecules in the milk and they move the food coloring around in interesting and beautiful ways. Experiment with the placement and amounts of food coloring, the amount of soap used, and the colors added to create your own milk masterpiece!

Materials:

Plate
Food Coloring
Dish soap
Cotton swab
Whole milk (not included in the prepackaged kit)

Directions:

1. Pour a thin layer of milk on to your plate. Make sure to completely cover the bottom of the plate.
2. Add drops of food coloring to the top of the milk.
3. Touch a cotton swab to the surface of the milk. Does anything happen?
4. Dip the cotton swab in dish soap and touch it to the surface of the milk. Watch what happens!

Making Butter

We will use all of our observation skills as we turn cream into butter! We will watch the physical change through the clear walls of our container, listen and feel for the changes in texture as we shake, and smell and taste at all stages of the process.

Materials:

Clear jar with lid
Heavy cream (not included in the prepackaged kit)

Directions:

1. Pour the cream into the jar, filling it no more than half way.
2. Shake! This will take 5-15 minutes depending on environmental factors and the strength of the shaking.
3. Stop and observe several times as you shake. If appropriate, taste it each time!
4. Pour off the buttermilk, and enjoy the butter spread on crackers.

Engineer a Farm

Work together as a class to make your own model farm. It could be a dairy farm, a pick your own fruit farm, an organic family farm, or any other type of farm you can imagine. What animals, plants, machines, people, and buildings will your farm need to survive and prosper?

Materials:

Model Magic

Items below were not included in the prepackaged kit:

Recycled items (tubes, boxes, yogurt cups, milk cartons, cardboard, bubble wrap, etc)

Craft items (craft sticks, pipe cleaners, paint, construction paper, etc)

Masking tape

Directions:

1. Choose a specific type of farm to create as a class. Brainstorm the animals, plants, machines, people, and buildings that that type of farm will need. Older students can research to find pictures of the specific tractors, milking robots, or other farm equipment in order to make their farm as accurate and realistic as possible.
2. Assign students to make each needed item out of craft supplies and recycled items. One student could make a barn out of a shoe box, while another makes cows from model magic, and a third is crafting the farmer and her assistant from cardboard. Older students can think about scale and size as they make their model.
3. Create a display and take photos to share with parents or other classes.

Prepackaged kits sponsored by:



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