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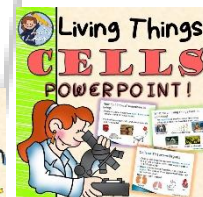
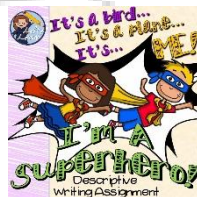
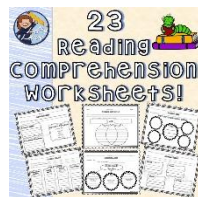
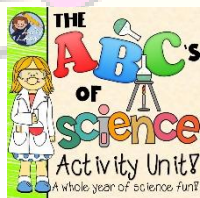
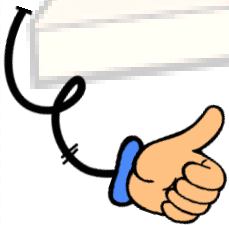


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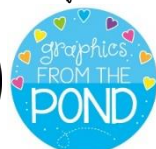
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# Let it Snow!!

## Materials:

Sodium Polyacrylate

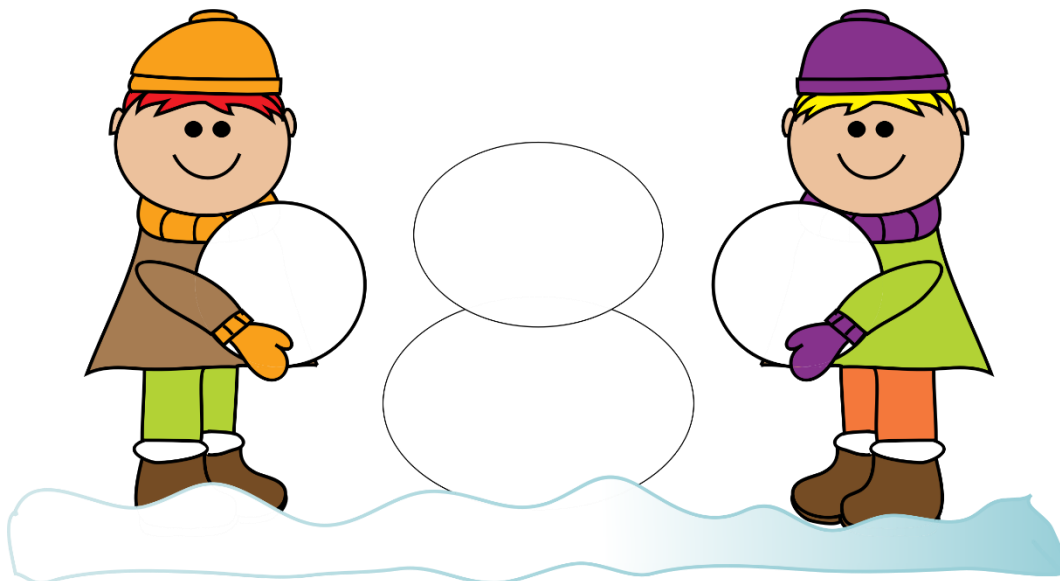
Water

Bowl

Tablespoon

## Directions:

1. Pour 1 tablespoon of the sodium polyacrylate into the bowl.
2. Add 1 tablespoon of water.
3. Wait 1 minute and watch the snow start to form!
4. Add another tablespoon of water and wait to see what happens!
5. You can play with the snow but **DO NOT EAT IT!** Sodium polyacrylate is **VERY DANGEROUS** if it is eaten!
6. Please try to keep the snow inside the bowl.



# We All Scream For Ice Cream!

## Materials:

1 Gallon size ziplock bag

1 quart size ziplock bag

Ice cubes

$\frac{1}{2}$  cup salt

$\frac{1}{2}$  cup half and half

2 tablespoons sugar



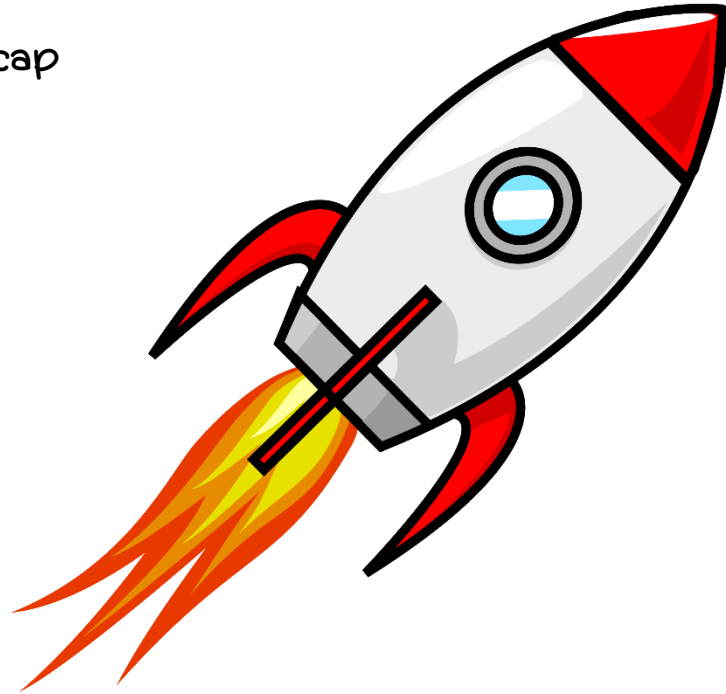
## Directions:

1. Fill the gallon size ziplock bag halfway with ice cubes.
2. Add  $\frac{3}{4}$  cup salt.
3. Pour the sugar and half and half into the quart size ziplock bag. Zip the quart size bag shut.
4. Place the quart size bag inside the gallon size bag with the ice. Zip the gallon size bag shut.
5. Take turns shaking the bag until the half and half hardens (about 5 minutes).
6. Eat and enjoy!

# Ready, Set, Launch!

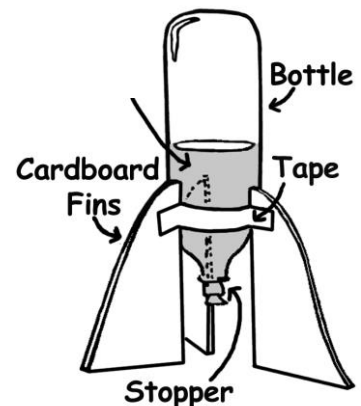
## Materials:

- Small water bottles with cap
- Construction paper
- Markers and Scissors
- Duct tape
- Cardboard
- Vinegar
- Baking soda
- Paper towels



## Directions:

1. Each group will be creating one rocket to launch. Trace three wings onto the cardboard, cut them out, and decorate them.
2. Using the duct tape, tape the wings onto three different sides of the top of the bottle (by the cap) so that it creates a stand.
3. Decorate the rest of the bottle using the construction paper, markers, and tape.
4. Make sure the cap does not get lost.
5. Wait for your teacher. We will be launching the rockets as a class.
6. Your rocket should look something like this:



# Become an EGGSPERT

## Materials:

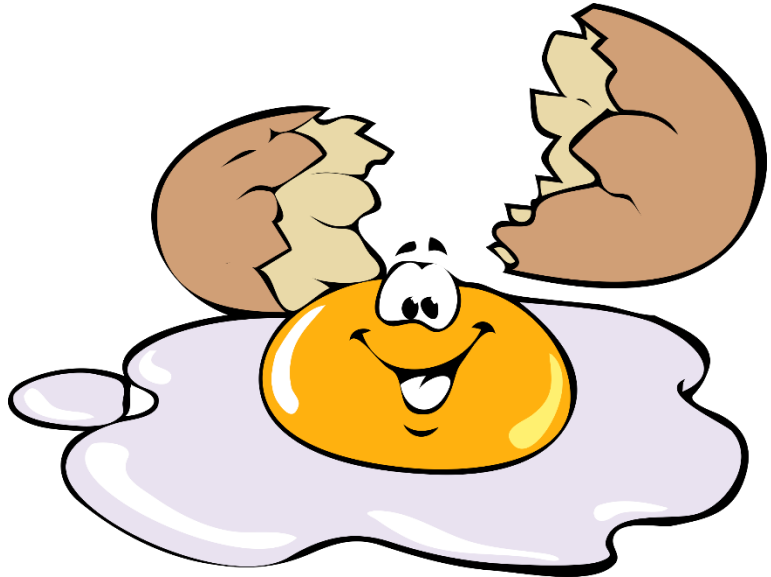
1 dozen raw eggs

Toothpicks

Gum drops

Plastic tablecloth

String



## Directions:

1. The goal is to keep the egg whole when it is dropped from a high place. Each group will be creating a safe home for their egg and we will be dropping them to see which 'egg house' is the safest!
2. Using only the toothpicks, gumdrops, tablecloth, and string, create a safe home for your egg. Think about what shapes you can create to keep your egg safe when it is dropped.
3. Wait for your teacher. We will be dropping the eggs as a class.



# Let's Get Gooney!

## Materials:

Dish soap

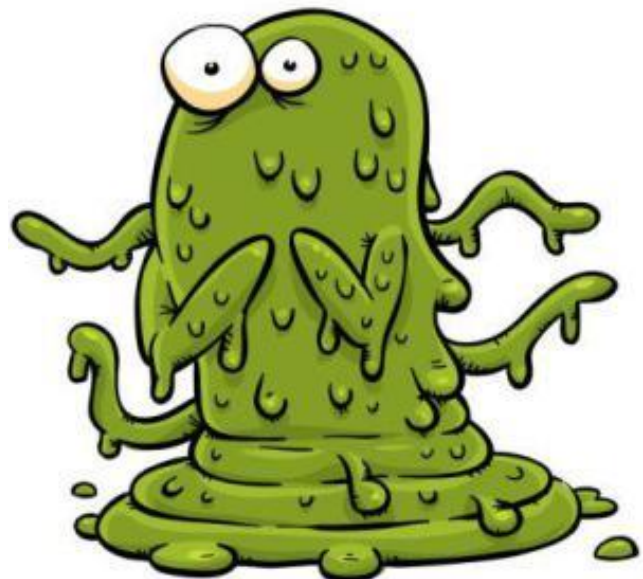
Corn starch

Bowl

Spoon

## Directions:

1. Pour a few squirts of the dish soap into the bowl.
2. Add one spoonful of corn starch.
3. Mix them together. Be patient! It might take a few minutes to mix well.
4. If the mixture is too thick, add more soap. If it is too runny, add more corn starch.
5. Squish and have fun!



## Notes for the Teacher

Give each station an instruction sheet for that activity. Set up the classroom so that each station has plenty of room because some of these might get messy! Tablecloths are a great idea. These stations were designed so that each station has 4-5 students at a time. After around 7 minutes, have students clean up their station and move to the next.

### Some notes about each station:

#### 1. Let it Snow:

Sodium Polyacrylate is the most absorbent material. It can hold 99.9% of its weight in liquid. Sodium polyacrylate can be found on the inside of a diaper, just cut the diaper open and shake out the crystals from the cotton. For an easier way to get the crystals out, place the cotton part in a ziplock bag and shake until the crystals separate from the cotton. I would recommend doing this beforehand as it is very time consuming to do with the students in class.

Discuss the properties of sodium polyacrylate with your class. What are some other absorbent materials? How do we use them in our everyday lives?

#### 2. We All Scream for Ice Cream:

This station is designed so that each group makes one bag of ice cream. Adding vanilla extract or food coloring is a fun way to make your ice cream flavorful and colorful.

Discuss states of matter with your class. Why is the salt important? (It lowers the temperature at which water freezes). When else do we use salt to prevent things from becoming too cold? (After a snowstorm when we pour salt on the road so that it does not ice over).

### 3. Ready, Set, Launch:

This station is designed so that each group makes one rocket. When each group has finished making their rocket, fill each bottle around halfway with vinegar. Have one student in each group place two tablespoons of baking soda into the paper towel, roll it, and twist the ends. Then, holding the bottle right side up, place the paper towel at the opening of the bottle and loosely put the cap on so that it holds the paper towel in place. The paper towel should not be touching the vinegar. When you are ready to launch, simply turn the bottle upside down onto the ground so that it stands on its wings and watch the chemical reaction launch the rocket!

Discuss what happens when the rocket launches. What happens when the baking soda mixes with the vinegar? What type of chemical reaction is this?

### 4. Become an EGGspert:

This station is designed so that each group makes one egg house. When students are finished making their egg houses, give each group a raw egg and have them place the egg in the designated spot of their house. Drop the egg houses from a high place or from standing on a chair (I recommend outside) and see which house kept its egg safe.

Discuss gravity and forces of energy with your class. Examine the structure of the houses that kept the egg whole. Examine the structure of the houses where the egg broke.

### 5. Let's get Gooey:

Discuss the properties of dish soap and the properties of cornstarch. What happens when they mix? Leave the goo untouched for a few minutes. What happens? (It hardens) Why do you think that happens?