SCIENCE SAFETY

PLEASE follow these safety precautions when doing any science experiment.

- ALWAYS have an adult present.
- ALWAYS wear the correct safety gear while doing any experiment.
- NEVER eat or drink anything when performing any experiment.
- REMEMBER experiments may require small parts. Those objects could become a CHOKING HAZARD. Adults are to perform those experiments using these objects.

MOVIE PLOT

It was a bright and sunny day in Bumblyburg...until Dr. Flurry came to town. This chillin’ villain wants to freeze the entire city...in fear! This job is too big for LarryBoy to handle alone, so he turns to the “League of Incredible Vegetables” for help! TH'igamabob (Bob the Tomato), S-Cape (Mr. Lunt), Vogue (Potunia Rhubarb), and Ricochet (Junior Asparagus) are up for the task, but find that their own fears could lead them in Dr. Flurry’s deep freeze! Will they remember to turn to the One who is bigger than all their fears before the whole town ends up on ice?

SCIENCE WORDS

When introducing new vocabulary words, write each word somewhere in the classroom for students to observe, pronounce the word, explain its meaning, and encourage students to apply and elaborate on the new science word.

GOD GIVES US STRENGTH EXPERIMENT VOCABULARY

Air - Air is the mixture of gases that surrounds the earth.
High Pressure System - A high-pressure system or an anticyclone is an area where the air diverges and sinks. A high-pressure system usually brings clear skies.
Low Pressure System - A low-pressure system or cyclone is an area where the air converges and rises. A low-pressure system usually brings precipitation.

THE ULTIMATE FORECASTER VOCABULARY

Cloud - A cloud is millions of tiny water droplets or ice crystals suspended in the air.
Condensation - Condensation occurs as water vapor cools and turns into drops of water.

MOVIE WEBSITE

www.veggietales.com/league
THE ULTIMATE SCIENTIST

MOVIE CONNECTION
Dr. Flurry, the mad scientist plans to freeze the entire city of Bumblyburg. The Bible says, God controls all weather and by the end of the move we learn God is the ultimate scientist.

WHAT THE BIBLE SAYS
Exodus 9:29  Moses replied, “When I have gone out of the city, I will spread out my hands in prayer to the Lord. The thunder will stop and there will be no more hail, so you may know that the earth is the Lord’s.”

HANDS-ON EXPERIMENT
Cloud in a Bottle

Ingredients
- 2-liter Clear Plastic Bottle
- Water
- Matches

Instructions
STEP 1: Add a small amount of water into the bottom of the plastic bottle.
STEP 2: Light a match, place the burning match into the bottle, and quickly screw the top on the plastic bottle.
STEP 3: Squeeze and release the plastic bottle several times.

Explanation
When the plastic bottle is released the pressure and temperature decrease, which allows water vapor to condense on the smoke particles. When this occurs a cloud is created.

Bible Connection
Although we were able to create a cloud by using a specific set of ingredients and instructions, God controls all weather and is the ultimate scientist.
GOD GIVES US STRENGTH

MOVIE CONNECTION
In an effort to save the city from Dr. Flurry, the League of Incredible Vegetables realizes that their true strength is not in their super-abilities. They learn God gives them strength to do things they never imagined.

WHAT THE BIBLE SAYS
Job 5:9 He performs wonders that cannot be fathomed, miracles that cannot be counted.

HANDS-ON EXPERIMENT
Soaring Toilet Paper

Ingredients
- Leaf Blower
- Toilet Paper
- Dowel Rod

Instructions
STEP 1: Place the toilet paper on the dowel rod and unroll a few pieces of tissue.
STEP 2: Hold the dowel rod horizontally so the roll will unroll away from you.
STEP 3: Turn on the leaf blower and aim the stream of air over the top surface of the roll of toilet paper.

Explanation
Bernoulli’s Principle states that the pressure exerted by a fluid decreases as its velocity increases. Increasing the velocity over the top surface of the toilet paper lowers the pressure of the air pushing down on the paper. The paper is lifted because there is now an unbalanced force of air pressure acting upward.

Bible Connection
Just as the strong air flowing from the leaf blower gives strength to the toilet paper, God gives us strength to do things we never imagined.
The League of Incredible Vegetables Quiz

Complete each sentence with the correct science word(s).

Cloud Air Low Pressure System

High Pressure System Condensation

1. _______________ occurs as water vapor cools and turns into drops of water.
2. A _______________ or an anticyclone is an area where the air diverges and sinks.
3. A _______________ is millions of tiny water droplets or ice crystals suspended in the air.
4. _______________ is the mixture of gases that surrounds the earth.
5. A _______________ or cyclone is an area where the air converges and rises.

Match each Incredible Vegetable to their correct super ability.

1. ____ LarryBoy
   a. Quick change into outfits for any situation!
2. ____ S-Cape
   b. Can get out of any situation (even chores)!
3. ____ Ricochet
   c. Turbo-bouncing.
4. ____ Vogue
   d. Amazing with gadgets and doo-dads.
5. ____ Thingamabob
   e. Super suction ears.

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www.hookedonscience.org