

Science Lessons For Kindergarten!

Making Science Fun

18 Weeks of Interactive, Hands-On, Easy to Implement Lessons



List of Formative and Summative Assessments

Week 1- Weather in our Community/Reading Thermometers

Pre-Test-Hot or Cold	Formative
Daily Dressing Weather Bear	Formative
Weather Journal	Formative
Chart-What is Weather?	Formative
Student Weather Booklets	Summative

Week 2- Weather/Patterns over Time (Seasons)

Daily Dressing Weather Bear	Formative
Weather Journals	Formative
Student Weather Booklets	Summative

Week 3-Weather/Simple Problem-Choosing Clothes Based on Weather

Daily Dressing Weather Bear	Formative
Weather Journals	Formative
Season Tree Handout-Tissue Paper	Summative
Post-Test Hot or Cold	Summative
Online "Pop Quiz"	Formative

Week 4-Plant and Animals Needs

Daily Dressing Weather Bear	Formative
Weather Journals	Formative
Classroom T-Chart/Wants & Needs	Formative
Plant Diagram	Summative
Plant Need Quiz Online	Formative
Jeopardy Review Game	Formative
4 Things Animals Need	Summative
Plant Need Handout	Summative

Week 5-Eating Healthy/Taking Care of Pet's Needs

Daily Dressing Weather Bear	Formative
Weather Journals	Formative
BINGO-Healthy Foods	Formative
Presentations on Pet's Needs	Summative/Project-Based Assessment

Week 6 -Animals Change Their Environment to Meet their Needs

Daily Dressing Weather Bear	Formative
Weather Journals	Formative
Class T-Chart	Formative
Rabbit Model	Formative
Beaver Model	Formative
Chipmunk Model	Formative
Deer Model	Formative
Hummingbird Model	Formative

About Ordering Supplies

I have broken the list down into categories. My suggestion would be to get a tub and have all of your science supplies in one spot to simplify your life. I have broken the supplies down into three ways. 1. Week by week; 2. One Page at a Glance; 3) Checklist.

It is difficult for me to say the quantity when building your tub supplies. I don't know how many students your class has. I also always get extra. (just in case)

There is a checklist to make notes on. This can help you plan for the second year. You can make notes about quantity or highlight things that need replaced each year.

Many of the items will need replaced year to year. Some items will need replaced, but they might last several years. Any good science tub needs refilled each year.

There is a parent note to ask for students to bring in items. I would send it out at the beginning of the year. Most parents will try to quickly get the items in. Some students will bring in "extra" if you tell the students to. This helps for the students that won't bring in anything.

Tub Ordering Supply List

Supplies at a Glance

** The week you'll need this item is in the parenthesis behind item.

Books (can substitute with same content from classroom library)

Llama Llama Sand and Sun by Ana Dewdney (1)
Thundercake by Patricia Polacco (1)
Curious George in the Snow by HA Rey & Margaret Rey (1)
The Windy Day by Brian Karas (1)
The Cloud Book by Tomie de Paolo (2)
Hide and Seek Frog by Alvin Tresselt & Roger Duvoisin (2)
Four Seasons in a Year by Ann Rockwell (2)
Summer Days and Nights by Wong Herbert Yee (2)
The Fantastic Gifts of Fall by Dandi Mackall (2)
When Winter Comes by Nancy Van Laan (3)
Spring is Here! By Will Hillenbrand (3)
The Puppy Who Wanted a Boy by Jane Yayer (4)

Typical Classroom Supplies

Chart paper
Markers (1) (13) (14) (14) (17) (18)
Pink, green, orange, white tissue paper (3)
Blue & green tissue paper (10)
Glue (3) (6) (7) (8)
Paper (4) (16) (17) (18)
Crayons
Brown paint (6)
Yellow paint (14)
Red paint (14)
Paint brushes (6) (14)
Scissors (6) (8) (12) (13) (14) (17) (18)
Lg. Wood Popsicle sticks or paint sticks (6) (16) (17) (18)
Construction Paper-Black (8)
Construction Paper-Variety Colors (8) (16) (17) (18)
Yellow/Red/Orange Construction Paper (14)
Butcher Paper-Black or Blue (8)
Hole punch (10)
2 chairs (12)
Rubber bands (13)
8 Rulers with groove in center or Hot Wheel Ramp (13)
Small box of Krick knacks (blocks, Legos, etc.) (13) (14)
Paper Towels (14)
Permanent Marker (14)
Tape (14)
Craft Supplies-Ideas-Feathers, pom poms, pipe cleaners, glitter, etc. (17) (18)

Make/Print Ahead of Time

Bingo Cards from from <http://www.dtk-cards.com/bingo/bingo1.asp> (Choose "Nutrition") (5)
@ 60 strips of brown construction paper laminated (9)
@ 15-20 white butcher paper strips (about 5 feet each) with black tape parallel lines of tape/laminated (9)
6" x 2" strip of paper (10)
Triangle Templates in a bag (14)

Cardboard pieces (14)
Black, Blue, Yellow, White Construction Paper Mats- 1 for each group. Laminate & Save. (15)

Misc

Bumble bee stickers (optional) (7)
Wiggly Eyes (Optional) (1) (8) (14)
Bingo Chips (5)
Duct tape (6)
Toilet paper rolls (6)
Cotton balls (8)
Paper plates (6) (8) (14)
Wax paper (cut into circles)
Honeycomb cereal (7)
Ribbon (8) (10)
Liquid starch (10)
Newspapers or brown grocery bags (10) (12) (14)
Wide mouthed jar (10)
Heavy Duty Aluminum Foil (6" x 6" Square) (10)
Ice Cubes (10) (14) (15)
Matches or lighter (10)
Salt (10)
3 jars (10)
3 stalks of fresh celery (10)
Food coloring dye (10)
Plastic bottle with a spout (empty water bottle) (12)
Yarn (12)
Poster boards or white butcher paper pre-cut (12)
Broom Handle Stick or 5" dowel (12)
Toothpicks (13)
Flat Styrofoam (13)
Wine cork package (13)
Craft foam (13)
Bag of Plastic animals (Dollar Store) (13)
8-10 Marbles (13)
Clear Plastic Cups (14) (14)
Lima Beans (1 for each student and teacher) (14)
1 Shoe Box (14)
Plastic Bowl (14)
Spray Bottle (14)
Bag of potting soil (14)
Cup of Sand (Store in bag or jar) (14)
Cup of Gravel (Store in bag or jar) (14)
Timer (14)
Ziploc Sandwich Bags (14) (15)
Sponge brush (14)
Temperature Probe Thermometer (14)
4-5 balls of blue yarn (any size) (15)
3 red balls of yarn (any size) (15)
Freeze Pops (15) (15) (16)
"Frozen Heart" song to play for game (optional) (16)
Masking Tape (16) (17) (18)

Dear Parents,

I have planned so many different fun and exciting science experiments, activities, projects, and investigations this year.

For science classes, I'm only asking your child to bring in 1) a cardboard toilet paper roll.

I often get parents that offer to pick up some items for our class to pitch in. I put together a list. If you would like to pick up **one** of these items and send it in, it would be greatly appreciated. Our Class Wish List for Science Investigations and activities are:

Bumble bee stickers	Clear Plastic Cups
Wiggly eyes	Lima Beans
Cotton balls	Ziploc Sandwich Bags
Paper plates (projects)	Freeze Pops (sun and chemical change)
Honeycomb cereal	Masking Tape
Ribbon	Duct Tape
Newspapers or brown grocery bags	Red or Blue Yarn
Wax Paper	

I'm looking forward to having a great school year!

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Note: Read and discuss each fact card with class before viewing each video. Explain the underlined words as you go over the facts.

Rabbit Facts

- Rabbits natural habitat is outside.
- Rabbits are prey animals.
- A prey animal is an animal that predator animals hunt and eat for food.
- Rabbit behaviors are shaped because other animals are always trying to get them.
- Rabbits have excellent hearing and vision so they are alert to predators sneaking up on them.
- Wild rabbits live in warrens. Warrens are holes and tunnels underground.
- Types of animals that hunt rabbits are weasels, stoats, minks, ferrets, wolves, badgers, dogs, fox, coyotes, cats, eagles, owls, hawks, falcons, snakes.



Force

What is force?

Force is strength, power, or effect.

Nothing can move without some kind of force.

Two kinds of force are push and pull.

A push or pull causes motion or movement.

Push



I am pushing the shopping cart.
The force of the push moves the cart.
Push causes motion or movement.

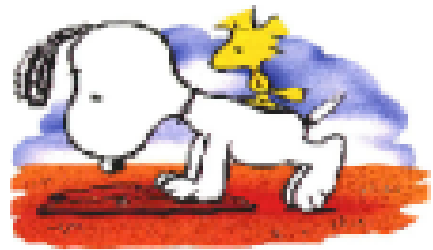
Pull



I am pulling the wagon.
The force of the pull moves the wagon.
Pull causes motion or movement.

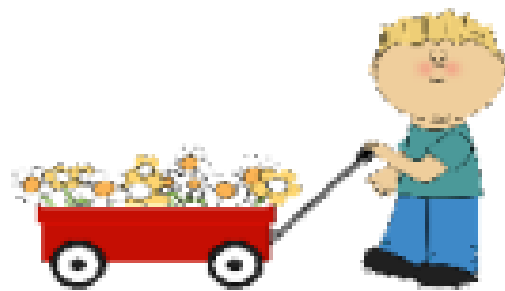
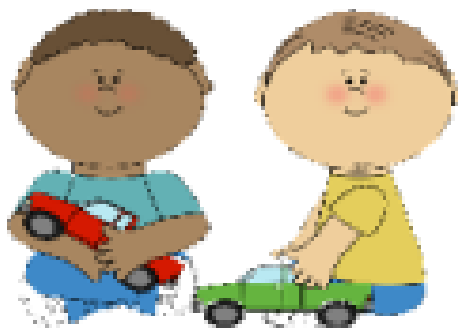
FORCE

Name _____



PUSH

PULL



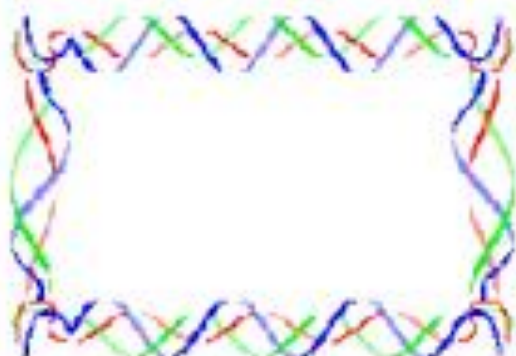
Draw or write things you can push or pull in the matching column.

Name _____

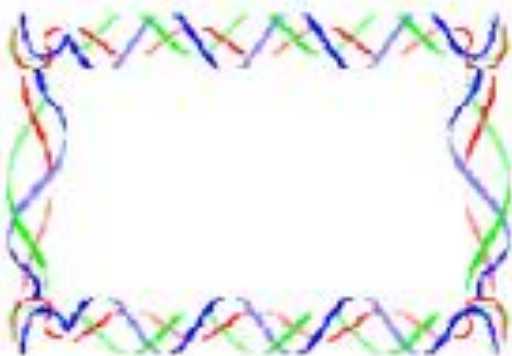
My Plant Observations



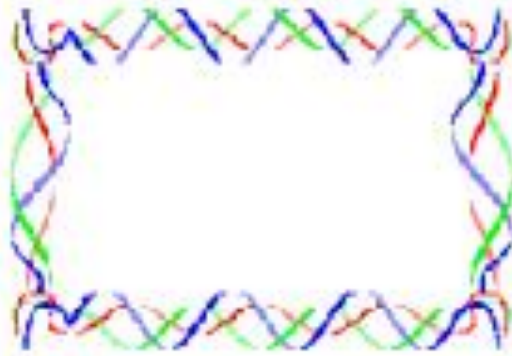
Observation #1



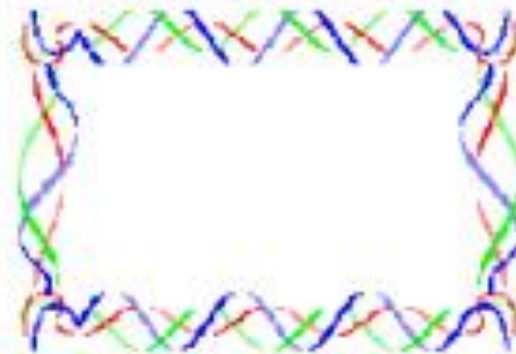
Observation #2



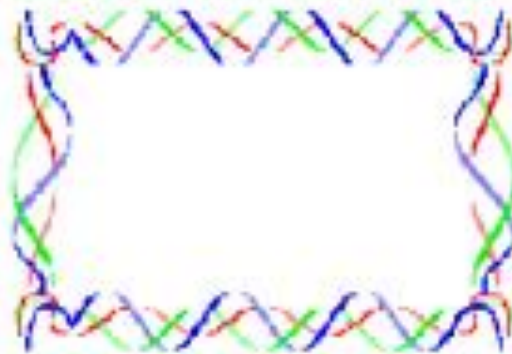
Observation #3



Observation #4



Observation #5

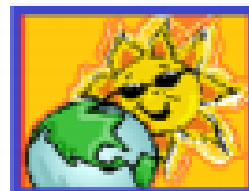


Conclusion

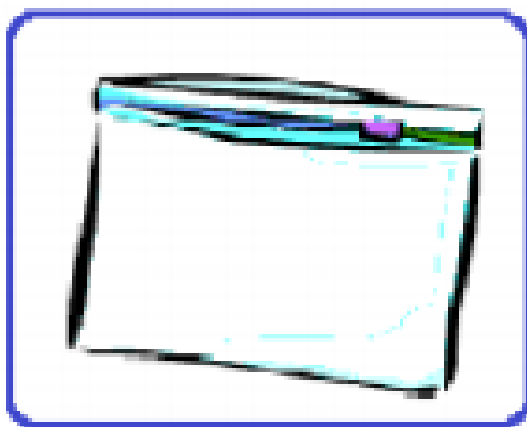


Name _____

The Sunlight's Effect on Earth



Investigation: Ice, Ice Baby Journal



Record Results

This is my ice after
I left it in the sun.

Was my prediction right?

Yes

No

Draw Conclusion:

I think that this happened because

Fire and Ice Tag Game

(Like Freeze Tag)

Supplies:

- 4-5 blue yarn balls
- 3 red yarn balls

Procedure:

1. The blue yarn balls represent "ice". Students with ice are "it" and try and tag others. If you are tagged by ice you must freeze.
2. Have frozen students put their arms up so everyone can tell they are frozen.
3. The red balls represent "fire". Students with fire try and save frozen students by unthawing the ice (tagging with red ball).
4. Stop the game every 3-4 minutes and trade out who is playing fire and ice.