Preschool Stories & Science: 2010 Programs

Week 1

Book: *Little Cloud* by Eric Carle

Science concepts: Water cycle; condensation; heat changes water

Science Demonstrations

- Show Tornado tube
  - Gravity/weight of water—soda bottle filled with water; poke 4 holes in it to let water out (from *Squirts and Spurts* by Vicki Cobb, p.9)
- Create a cloud
  - Questions: What's this? What's doing? How can we make the water flow? Faster? Shake? Spin? What does it remind you of?
  - Explanations: Clouds form when water vapor forms tiny visible droplets. This results from cooling the vapor. It helps to provide particles around which the water can liquefy. In this project, we'll use smoke to help form a cloud.
- Eggs in Jars - repeat this one each week for a while
  - Put many eggs in many jars with different liquids and observe the changes for a few weeks, noting changes each week

Science Activity:

- How water behaves
  - Supplies: Wax paper and water droplets
  - Instructions: Play with droplets on the paper, observe and predict how they will travel (from *I Get Wet* by Vickie Cobb)
- Droplet Race
  - Supplies: Magnifying glasses, straw, foil, wax paper, plastic
  - Instructions: Make ramps and race droplets down different surfaces.

Craft 1

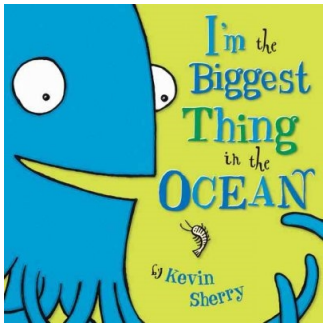
- Blow Painting; bubbles
  - Supplies: Cups, containers with water and water color.
  - Instructions: A little soap is added and with a straw blow to make a bubble cloud. Take straw and spoon over the paper. Play with bubbles. Make more and add. Glitter when wet.

Craft 2

- Fold and Press Painting
  - Supplies: Large blue paper and spoons for tempera paint.
  - Instructions: Fold paper in half and put spoon of tempera in middle. Fold and press in all directions. Open and identify if possible. Decorate with sequins, glitter, markers.

Preschool Stories & Science: 2010 Programs

Week 2



Book: ***I'm the Biggest Thing in the Ocean***
by Kevin Sherry

Science Concepts: Big/Little; Measurement, Predicting

Science Demonstration

- Measuring, Comparing, Predicting
  - Show kids two different sized containers and fill with same amount of water then pour into different sized
  - Vote on which one can has the most
    - Show results on simple graph.
  - Explanations: Conservation of mass-tall, skinny, fat and short containers-
- Eggs in Jars
  - Observe changes in jars from last week

Science Activity

- Measuring water
  - Supplies: Water tubs, multiple containers of different sizes and shapes, tarp, measuring spoons
  - Instructions: Pour water into different sizes and shapes of containers. Predict how full each one will get.

Craft 1

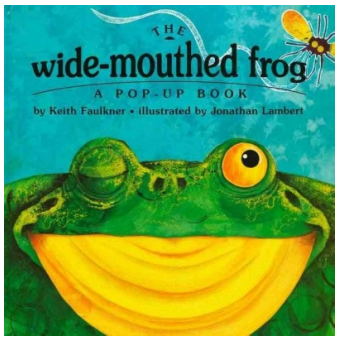
- Jellyfish
  - Supplies: Use yarn, ribbon, tissue streamers for effect. Foamy stickers to decorate.
  - Instructions: Make jellyfish with pieces of border taped into circle. Use yarn, ribbon, tissue streamers for effect. Foamy stickers to decorate.

Craft 2

- Fish
  - Supplies: Water colors in spray bottles, fish shapes, glitter.
  - Instructions: Spray the Fish Shapes with colors, decorate with glitter

Preschool Stories & Science: 2010 Programs

Week 3



Book: *Wide-Mouthed Frog* a pop-up book
by Keith Faulkner

Science Concept: How do animals catch food; Eating

Science Demonstration

- Food Chain
  - Show videos of insects eating

Science Activity

- Who eats what?
  - Supplies: Paper puzzle pieces of animals and foods
  - Instructions: Match the food to the animal that eats it
    - Note: This was *not* interesting to the kids. They need to try stuff and see what happens, not do school-ish puzzles
- What's in dirt?: Replacement activity for "Who Eats What?"
  - Supplies: Dirt, plants, worms, cups, spoons, magnifying glasses
  - Instructions: See what's in dirt. Dig around, observe, ask questions. This was much more interesting

Craft 1

- Paper Plate frog with blowout tongue
  - Supplies: Plate, paint, paper, glue, party blowers
  - Instructions: Paint or decorate plate. Fold in half. Make eyes. Legs in front and back with paper and tape or glue. Notch the midway point of folded plate and stick through the blower.

Craft 2

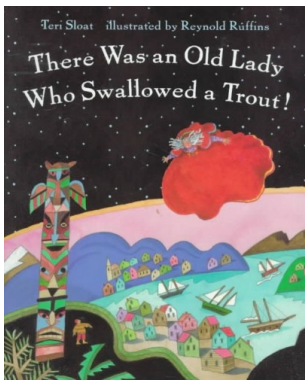
- Make cards or books with stamp pads and paper
  - Instructions: Use paper or paper plates with crayons to use with rubbing plates for insect that frogs eat. Put out markers to color. Supplies: Paper, crayons, markers, stamps.

Good Idea that didn't come together in time

- Ask local pet store to bring out a frog and/or other animals to look at.

Preschool Stories & Science: 2010 Programs

Week 4



Book: ***There Was an Old Lady Who Swallowed a Trout***
by Teri Sloat

Science Concept: Ocean Habitat

Science Demonstration

- Buoyancy
  - See if egg will float in jar of water, then in jar of salt water
  - Questions: Will it float in plain water? What if we add more salt? More water?
  - Explanations: Salt is denser than water. Objects in salt water are more buoyant than in fresh water.

Science Activity

- Exploring in the sand
  - Supplies: Tubs filled with dry. Objects to put in the sand: sand dollars, toys, etc.
  - Instructions: Dig to find objects in sand with sand dollars and other objects to take home
- Creating in the sand
  - Supplies: Tubs filled with wet sand. Cups, molds, etc.
  - Instructions: Make shapes, castles, etc. with wet sand and molds.

Craft 1

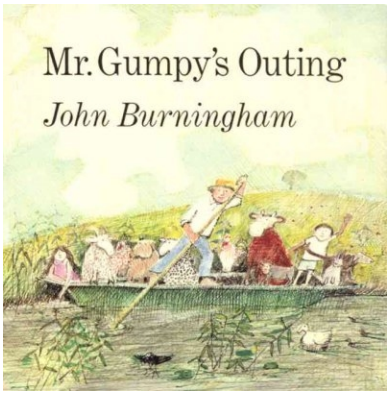
- Salt painting
  - Instructions: Paint with watery paint and salt the painting. Put on tissue paper
  - Supplies: Cut out fish, glitter, sequins, tissue seaweed, salt, paint

Craft 2

- Ocean in a bag (from *Crafts for Kids Who are Wild About Oceans* by Ross)
  - Instructions: Fill your ocean (jello bag) with fish, sparkles, and other stuff. Squeeze out air. Fasten and double bag.
  - Supplies: Ziploc bags prefilled with ¼ inch thick blue jello (stir with ice to make soupy); Two ziplocs per child; Fish, sparkles, shell, beads, etc.

Preschool Stories & Science: 2010 Programs

Week 5



Book: ***Mr. Gumpy's Outing***
by John Burningham

Science Concept: Buoyancy

Science Demonstration

- Floating and sinking prediction
  - See which objects will float, and which will sink
  - Use fishbowl or other large transparent container full of water, then just grab a bunch of stuff: cork, plastic animal, rock, wood, empty bowl / bowl with wate…
  - Questions: Will it float? Make predictions. Why do some things float and others don't.
  - Explanations: Rock is heavier than water. Air is lighter than water. Removing air from bowl by filling it with water may make it sink.

Science Activity

- Float boats and test (from *My Boat—First Step Science* by Davies)
  - Instructions: Try floating different stuff in water. Make a boat, then see how much cargo (pennies, marbles, etc.) it can float.
  - Supplies: Big water tubs; boats of plastic, tubs, egg cartons, aluminum foil, pennies marbles, etc.

Craft 1

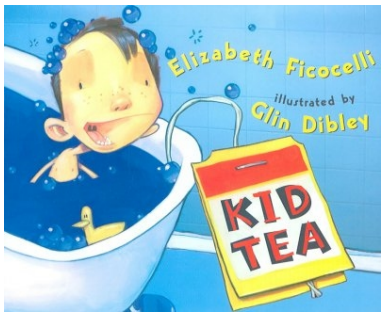
- Yogurt lid boats
  - Supplies: Yogurt lids, non-hardening clay, straws, decoration stuff, wading pool
  - Instructions: Attach straw to lid with clay, decorate sail, and try to float it in tub or pool.

Craft 2

- Cookie decorating
  - Instructions: Decorate cookie and eat with a cup of tea (like Mr. Gumpy)
  - Supplies: Cookies, icing, sprinkles, cups, water (for tea)

Preschool Stories & Science: 2010 Programs

Week 6



Book: *Kid Tea* by Elizabeth Ficocelli

Science Concept: Colors, bending light

Science Demonstration

- Refraction of light
  - Shine light on CD to show the colors that form
  - Questions: What colors do you see? Why?
  - Explanation: Grooves on the CD bend the light; When light bends it changes color

Science Activity

- Separate the colors of a marker
  - Instructions: Draw thick lines with different colored markers; Drop water onto them and observe as different colors run from the line.
  - Supplies: Paper, markers, pipettes, water

Craft 1

- Paint a body
  - Instructions: Paint a paper body in various colors
  - Supplies: Cut out paper bodies, paint, markers, yarn, other decoration stuff.

Craft 2

- Rainbow Sticks
  - Instructions: Decorate tubes with paper, glitter, and crepe paper streamers.
  - Supplies: Paper towel tubes, tissue paper, crepe paper, ribbon, other decoration stuff.