

The cover features a large, bright yellow sun with orange rays at the top. Below the sun is a white band containing the title. Underneath the title is a teal band with the word 'CURRICULUM'. The bottom half of the cover is decorated with abstract, wavy shapes in various shades of blue and teal, suggesting water or a landscape.

SUMMER CAMP

CURRICULUM

Units	Thematic Units	Dates
Week 1	Splash-tastic Water!	
Week 2	Space	
Week 3	Nature	
Week 4	Zoo	
Week 5	Dinosaur	
Week 6	Mad Scientist	
Week 7	Farm	
Week 8	Creepy Crawly	
Week 9	Camping	
Week 10	Celebration	

Materials List

- Rubbing alcohol
- Cooking oil
- Dish soap
- Corn syrup
- Food coloring (green, blue, and red)
- 1 Large Clear Jar
- 1 Funnel
- Bowls
- Liquid watercolors
- Paintbrushes
- Oil Pastels
- Salt
- Art Paper or White paper
- Scissors
- Glue
- Ocean Animal Stencils
- Rice Cakes
- 2 tubs of vanilla yogurt
- Fish-shaped crackers
- White nonpareils
- Blue rock candy crystals
- Knife
- Large spoon
- Paper plates
- Small and large plastic cups
- White construction paper per child
- Variety of colors of construction paper
- Markers
- Measuring spoons
- Measuring cups
- Small plastic toys
- Toothbrushes per child
- Chart Paper
- Coffee filters
- 1 packet of Kool-Aid or any colored drink powder per group
- Rubber bands
- Paper towels
- Ziploc bags
- Tape
- Optional – Sand
- Optional - Rocks

Activity Name

Ocean Zones

Area of Development

Arts & Crafts

Activity Objectives:

Scientific Vocabulary: Introduce and reinforce scientific vocabulary related to ocean zones, such as trench zone, abyss zone, midnight zone, twilight zone, and sunlight zone.

Observation and Comparison: Encourage children to observe and compare the layered representation of ocean zones in the jar, discussing the differences in density, color, and appearance of each layer.

Materials:

- 3/4 cup rubbing alcohol
- 3/4 cup cooking oil
- 3/4 cup water
- 3/4 cup dish soap
- 3/4 cup corn syrup
- Food coloring (green, blue, and red)
- 1 Large Clear Jar
- 1 Funnel
- 5-6 bowls



Procedure

- ♦ Start a discussion with your child about the many layers of the ocean.
- ♦ Each layer of the ocean is called an ocean zone. These zones are divided up based on how much light each zone receives. Talk about how there are plants and animals that live in each of the ocean zones, but most of them are in the sunlight zone. What creatures might live in each layer? How might those creatures have adapted to live in different layers? What might each layer look like and why?
- ♦ Here are the five ocean zones that will go in the jar (in order from bottom to top):
 - Trench Zone: Corn syrup (tinted black)
 - Abyss Zone: Dish soap (tinted purple)
 - Midnight Zone: Water (tinted dark green)
 - Twilight Zone: Cooking oil (tinted dark blue)
 - Sunlight Zone: Rubbing alcohol (tinted light blue).
- ♦ Begin by setting out your jar on the table.
- ♦ In a bowl, add drops of all three colors of the food coloring to the corn syrup. Mix together until it turns black. Using the funnel, add it to the jar. This is the Trench Zone.
- ♦ In a clean bowl, add the red and blue food coloring to the dish soap. Mix together until it turns purple. Using the funnel, add the dish soap to the jar. This is the Abyss Zone.
- ♦ In a clean bowl, add several drops of green food coloring to the water. Mix until it turns dark green. Using the funnel, add the water to the jar. This is the Midnight Zone
- ♦ In a clean bowl, add several drops of blue food coloring to the cooking oil. Mix until it turns dark blue. Using the funnel, add the cooking oil to the jar. This is the Twilight Zone.
- ♦ In a clean bowl, add only one drop of blue food coloring to the rubbing alcohol. Mix until it turns light blue. Add this layer very carefully so the water and oil zones don't get mixed up. This is the
- ♦ Sunlight Zone.
- ♦ Label each zone and observe the layers.



Activity Name

Miniature Water Cycle Bag

Area of Development

COGNITIVE

Activity Objectives:

Language Development: Stimulate language development by encouraging children to describe and explain their observations, discuss the water cycle concepts they learned from the video, and communicate their ideas with peers and adults.

Critical Thinking: Encourage critical thinking by prompting children to predict and discuss what might happen to the water inside the bags when exposed to sunlight versus shade, fostering curiosity and hypothesis formation.

Materials:

- 2 ziploc bag per child
- Permanent Marker
- Water
- Tape
- Blue Food Coloring
- An area that receives a lot of sunlight
- Area that is in the shade
- Table spoon
- Optional – Sand
- Optional - Rocks

Procedure

- ♦ Show your children the following video about the water cycle.
<https://www.youtube.com/watch?v=TD3XSIE4ymo>
- ♦ Begin by having the children draw on their Ziploc bags. They will draw a sun at the top, clouds and water at the bottom of each bag.
- ♦ Add one drop of food coloring to about 1/3 cup of water. Add more water and food coloring as needed for the number of children in your class.
- ♦ Allow the children to add 2 tablespoons of colored water to each bag.
- ♦ Children can add a tablespoon of sand to one side of the bags. Part of the sand should be submerged and part of the sand should be above water.
- ♦ Children can add rocks to the other side of the plastic bags.
- ♦ Close each bag
- ♦ Place one bag in the sun by taping it to sunny window or taping it to a surface outside so it hangs.
- ♦ Place the other bags in the shade by taping it to hang somewhere inside.
- ♦ Have the children observe their bags for the rest of the day. Checking on them every 1-hours.



Activity Name

How Do Fish Breathe In Water?

Area of Development

STEAM

Activity Objectives:

Scientific Understanding: Develop an understanding of how fish breathe underwater through gills and the exchange of oxygen in water.

Critical Thinking and Prediction: Encourage critical thinking by prompting children to predict and explain how the Kool-Aid (representing oxygen) will pass through the coffee filter (representing gills) into the fish's body (cup).

Materials:

- 1 coffee filter per group
- 2 clear plastic cups per group
- 1 packet of Kool-Aid or any colored drink powder per group
- 1 rubber band per group
- paper towels
- water
- paper

Procedure

- Begin by dividing the class into small groups to work together.
- Show the video How Do Fish Breathe Under Water <https://www.youtube.com/watch?v=XEY2A5q1rxw>
- Then explain to your students that they will be given materials to use to demonstrate how gills help a fish breathe.
- This activity is a simulation that represents a simplified version of how gills work. It helps students to visualize the oxygen in water. In order to simulate breathing underwater, the Kool-Aid represents oxygen dissolved in water passing through the gill (coffee filter) and into the fish's body (cup).
- Fill the 2 cups 1/3 full of water. Place a coffee filter over the top of one cup and secure it with a rubber band.
- Using the cup of water without the filter, pour a very small amount of Kool-Aid into the second cup and watch it dissolve.
- Once the Kool-Aid is dissolved, carefully pour the Kool-Aid water slowly over the coffee filter to demonstrate water with dissolved oxygen passing through the gills into the fish's body. Be careful not to overfill the cup as you pour!
- After completing the demonstration, students record their observations on a sheet of paper
- Finally, students explain how the simulation represents gills enabling a fish to breathe underwater.



Activity Name

Freezing Water Experiment

Area of Development

STEAM

Activity Objectives:

Problem Solving: Engage children in problem-solving tasks as they figure out how to remove a frozen toy from ice using salt and a toothbrush

Critical Thinking: Foster critical thinking skills by prompting children to make predictions about which bowl of water will freeze first and why.

Materials:

- 2 medium sized bowls
- Water
- Salt
- 1 spoon
- 1 tablespoon
- 1 small plastic cup per child
- 1 small plastic toy per child
- 1 toothbrush per child
- Chart Paper
- Markers

Procedure

- ♦ Label each bowl 1 and 2
- ♦ Pour 2 cups of water into each bowl
- ♦ In the second bowl add 2 tablespoons of salt and stir
- ♦ Create a chart to write down predictions and ask the children “Will it freeze?”
- ♦ Once children or teacher have written predictions, place the bowls in the freezer and check on them periodically to see which one has frozen.
- ♦ While the bowls are in the freezer, allow each child to fill their cup with water and add their small toy.
- ♦ Put the cups in the freezer.
- ♦ The next day, place the cups in a bowl of warm water and dump out the ice with the toy in it.
- ♦ Children will use the toothbrush and salt to melt the ice and remove the frozen toy.
- ♦ Remove the bowl from the freezer and observe if the water froze and which one froze faster



Activity Name

Conserving Water Flip Book

Area of Development

Language & Literacy

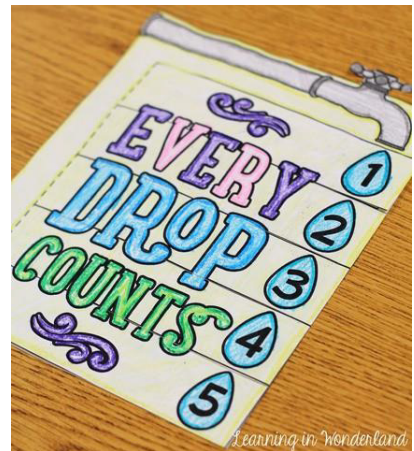
Activity Objectives:

Environmental Awareness: Increase awareness about the importance of conserving water and understanding ways in which individuals can contribute to water conservation efforts.

Critical Thinking: Encourage critical thinking skills by prompting children to think about practical ways they can conserve water in their daily lives and translating these ideas into visual representations.

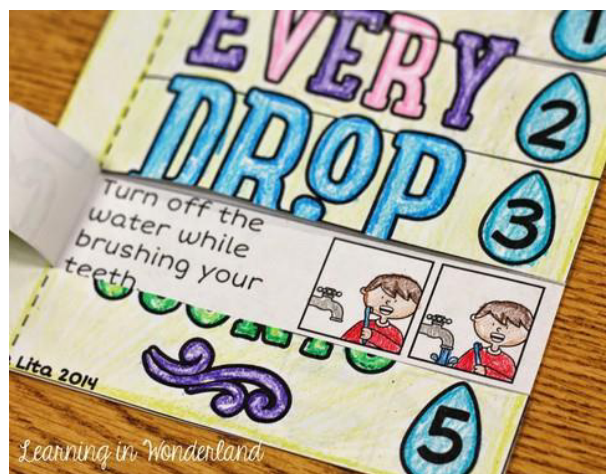
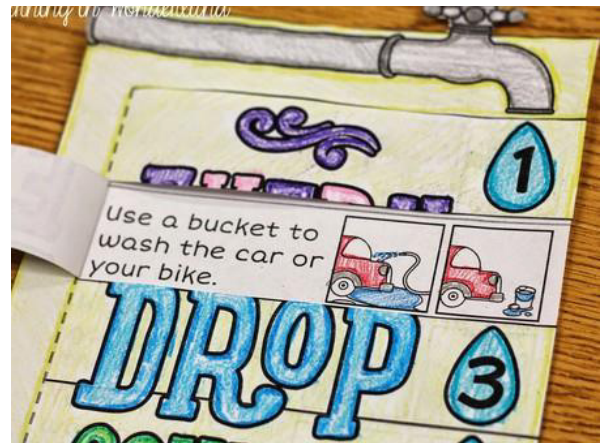
Materials:

- 1 large white construction paper per child
- Variety of colors of construction paper
- Scissors
- Markers
- Glue



Procedure

- ♦ Begin by showing the following video <https://www.youtube.com/watch?v=6yCAPAqXodc>
- ♦ Pass out 1 large construction paper to each child
- ♦ Have children fold the long construction paper in half like a book
- ♦ Glue or staple down the middle leaving some space like the spine if a book
- ♦ Allow students to cut 4 lines down the front cover horizontally
- ♦ Fold back each flap and allow students to draw 5 ways that they can help conserve water.



Activity Name

Under the Sea Fish Snacks

Area of Development

Cooking

Activity Objectives:

Fine Motor Skills: Develop fine motor skills as children spread the blue yogurt onto their graham cracker and arrange the celery and fish-shaped crackers on top. This involves precise movements and coordination.

Following Directions: Practice following multi-step directions by listening to instructions on how to assemble the snack in the correct order.

Materials:

- 1 Large rice cake per child
- Blue food coloring
- 2 tubs of vanilla yogurt
- 1-2 drops of blue food coloring
- Fish-shaped crackers
- White nonpareils
- Blue rock candy crystals
- Knife
- Large spoon
- 1 paper plate per child
- 1 small plastic cup per child

Procedure

- ♦ Pass out 1 paper plate, 1 cup and a rice cake for each child
- ♦ Add 2 spoonful's of yogurt to each child's cup
- ♦ Allow each child to add 1-2 drops of food coloring to their yogurt. Mix until well incorporated and the desired color is achieved.
- ♦ Allow the children to spoon yogurt onto the top of their rice cake and spread evenly to resemble an ocean.
- ♦ Pass out a few goldfish crackers, nonpareils and some blue rock candy crystals to each child.
- ♦ Allow the children to lay goldfish crackers on top of the yogurt mixture.
- ♦ Have the children use the nonpareils and blue rock candy crystals to create their own ocean scene.



Activity Name

Ocean Waves

Area of Development

Arts & Crafts

Activity Objectives:

Color Exploration: Introduce children to different shades of blue through liquid watercolors, allowing them to experiment with color mixing and creating a blue watercolor wash for their ocean background.

Observational Skills: Encourage observation skills by discussing ocean animals and using stencils or drawing freehand to recreate them on paper

Materials:

- Liquid watercolors
- 1 Paintbrush per child
- Oil Pastels
- Salt
- 1 Art Paper or White paper per child
- Scissors
- Glue
- Ocean Animal Stencils



Procedure

- ♦ To begin, have the students draw lots of white, wavy lines across their art paper using a white oil pastel.
- ♦ Set out some liquid watercolor paint in different shades of blue and have the children paint a blue watercolor wash over their art paper.
- ♦ Before the paint dries, have the students sprinkle some salt over their paper. As the paint dries, special designs will appear in their painting.
- ♦ When students are finished, allow them to set the ocean water paper aside to dry and begin making their ocean animals. Use another sheet of art paper and oil pastels to draw any sea creatures. Stencils can also be used.
- ♦ Once the animals are dry, allow students to cut them out and glue them onto their ocean art work.



Week 1: Fun in The Sun & Water

Supplemental Lessons



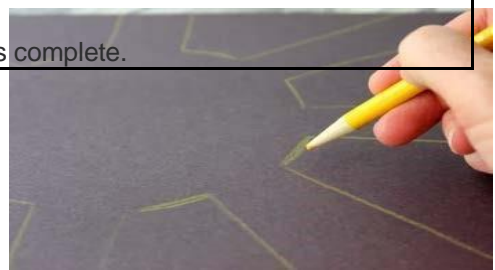
Week:	Splash-Tastic Water!
Subject:	Visual Art, Social-Emotional
Title:	Starfish Personality Craft
Supplies Needed:	<p>Scissors</p> <p>Glue</p> <p>Star template- print a variety from google to allow for student choice</p> <p>Assortment of crafting supplies</p>
Duration of Lesson:	30 minutes – 1 hour
Teacher Will:	<ul style="list-style-type: none"> - Host a discussion with the students about personalities and character traits. Teacher will provide some traits and things that they like about themselves first. - Encourage students to share some things about themselves. - If possible, host a discussion allowing the students to express positive traits about their peers. - Show students a sample Personality Starfish (teachers) - Allow students to design their craft to match their likes/personality. - Some students may need prompting or assistance with determining what to do. Come prepared with ideas about each student in the event adult assistance is required.
Student Will:	<p>Design a summer starfish that represents their personality using various art supplies.</p> <p>Once Starfish are displayed, students will guess which starfish belongs to who.</p>

Week:	Splash-Tastic Water!
Subject:	Art, Creative Expression
Title:	Sea Shell Painting
Supplies Needed:	Shells Paint- Acrylic diluted Or American Glass Enamels
Duration of Lesson:	2Hours
Teacher Will:	<p>First thing in the Morning have students set their object on the paper, and observe the shadow. Use paint to color in the shadow.</p> <p>Two hours later</p> <p>Make sure your object is in the same place, and paint the new shadow. Repeat this process all day.</p> <p>When the paint is dry, discuss the paintings. Ask students "How did the length of the shadows change? Why? How did their position change? Why would those changes happen?"</p> <p>Shadow Extension Activities</p> <p>Use a protractor to measure the angle change between each shadow. Repeat at different times of the year, and compare the results. Use your data and your latitude to calculate the speed of the rotation of the earth.</p>
Student Will:	<p>Set their object on the paper, and observe the shadow. Use paint to color in the shadow.</p> <p>Make sure your object is in the same place, and paint the new shadow. Repeat this process all day.</p>



Week:	Splash-Tastic Water!		
Subject:	ELA- Communication Skills		
Title:	Charades		
Supplies Needed:	Strips of Paper Bowl/Container Pencils/Pens		
Duration of Lesson:	1 Hour		
Teacher Will:	<p>You can prepare the categories and ideas ahead of time or let the kids create them when they're ready to play. It's easy, just write the ideas on strips of paper, put them in a basket, bowl, or hat, and then allow each person to draw one in their turn. The categories can be anything from objects to people, and if you're playing with children who can't read, you can use flashcards with pictures on them. When the team guesses correctly, they receive a point, and play is handed over to the other team. Play continues until the team with the most points wins. (The group should determine the points or game length before the beginning of the game).</p>		
	Animal Charades Chicken Horse Dog Snake Rabbit Cat Elephant Bird Cow Pig Turtle Frog Kangaroo Monkey T-Rex	Object Charades Blanket Bread Stairs Tablet Shoes Grass Ice Cream Cone Fire Truck Chair Laptop Pillow Airplane Guitar Drums Hula Hoop	Actions Charades Singing Brushing Your Teeth Jumping Rope Bouncing a Ball Getting Dressed Blowing a Kiss Reading a Book Writing Playing Baseball Playing Basketball Washing Your Hair Making Your Bed Washing the Dishes Watering the Flowers Fishing

Week:	Splash-Tastic Water!
Area of Development:	Visual Arts, Social Studies
Activity Name:	Roman Sun Mosaic
Supplies Needed:	Black, Orange, Yellow, Dark, Light construction paper (1 piece of each color per student) Pencil Scissors Glue stick
Duration of Lesson:	2 Days- (45 Minute Lessons)
Teacher Will:	<p>Show student examples of mosaic designs. Tell students that “Roman mosaics depicted gods and goddesses, gladiators, birds, and other designs.”</p> <p>Watch this video: https://youtu.be/uKb6BA1uAyg</p> <p>Teachers explain that students are going to make a roman sun mosaic today! Provide students a sun design or encourage them to draw their own! Instruct children to use pre-cut construction paper “tiles” to fill in their sun mosaic.</p>
Students Will:	<p>Let the children work on the drawing of their sun or utilize the precut version.</p> <p>Cut the paper into small pieces, about ¼ inch to one-inch square pieces, depending on the child's preferences and age (more essential details for younger children, smaller amounts for older children). Use appropriate child safety scissors for any children cutting the paper. Cut strips and then cut the strips down into squares.</p> <p>Glue the pieces of paper on the black construction paper. Allow the children to use a glue stick and put the form on the background according to their preferred color combinations. I started from the outside, outlining the drawing and then working inward.</p> <p>Allow the glue to dry, and the mosaic is complete.</p>



Week:	Splash-Tastic Water!
Subject:	ELA- writing
Title:	Under the Sea Jar Writing
Supplies Needed:	Jar Template Pens/Pencils
Duration of Lesson:	30 Minutes – 1 hour
Teacher Will:	<p>Introduce the writing lesson by talking about why they love the beach and if they have not been to the beach, why they would like to go to the beach. Be descriptive, using a multitude of adjectives.</p> <p>Introduce the term “Adjective”- a word that modifies or describes a noun or pronoun. Adjectives can be used to describe the qualities of someone or something. i.e. “The boy is tall and skinny.” Provide a few sentences and have the students determine the adjectives. If time allows, work as a group to come up with some adjectives that describe the beach.</p> <p>Using the attached “Ocean Jar” template, encourage students to write a short paragraph about their favorite part of going to the beach or why they would like to go to the beach. Ensure they use adjectives in their writing.</p> <p>If the students are too young to write, they may be paired up with an older student. Or the teacher can work in a small group with those students to write a story together.</p>
Student Will:	<p>Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.</p> <p>Students will recognize adjectives in written work.</p>

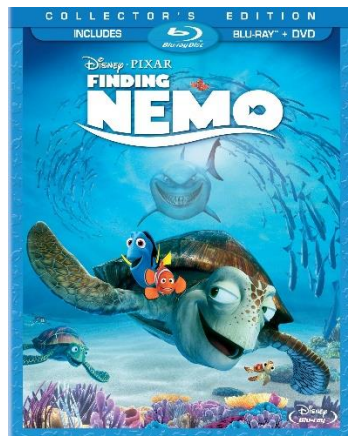


Week:	Splash-Tastic Water!
Subject:	ELA
Title:	Bucket List!
Supplies Needed:	Bucket List Template Pens or Pencils Chart Paper Markers Crayons
Duration of Lesson:	30 – 45 Minutes
Teacher Will:	<p>Introduce the idea of a “Bucket List” to the students. Ask students if they have ever heard this term or if they know what it means. Explain that a bucket list is a list of things that a person wants to do or experience in their life.</p> <p>Share examples of your own bucket list!</p> <p>Ask for volunteers to share something that may be on their bucket list and why (if they are willing to share). Chart the bucket list to display in the classroom.</p> <p>After compiling the class list, it is time for the students to write their own list on the attached bucket! Make sure to rotate the classroom, assisting with ideas, spelling, etc. If students are unable to write, work in a small group with them to assist or pair with an older student.</p> <p>Encourage students to decorate their bucket/work with drawings of the items on their list.</p>
Student Will:	Draft and write a list of experiences they would like to have.

Bucket Template on next page.



Week:	Splash-Tastic Water!
Subject:	Visual Arts
Title:	Finding Nemo watch party and drawing contest
Supplies Needed:	Finding Nemo Tv and/or Projector Art supplies paper
Duration of Lesson:	3 – 4 hours
Procedure:	<p>Watch “Finding Nemo”</p> <p>Provide students with various art materials and collage materials.</p> <p>Encourage students to create their best version of Nemo from “Finding Nemo”</p> <p>Have students and/or parents vote on the artwork that resembles nemo most closely!</p>
Student Will:	<p>Listen attentively.</p> <p>Experiment with various forms of art to express meaning.</p>



Week:	Splash-Tastic Water!
Subject:	Cooking, Visual Arts
Title:	Ocean Life Graham Crackers
Supplies Needed:	Graham crackers Goldfish crackers Aqua blue frosting Fun sprinkles
Duration of Lesson:	30 minutes – 1 hour
Procedure:	Provide each student with graham crackers and access to the frosting, goldfish, and sprinkles. Instruct students to spread the frosting on the cracker and decorate to their wishes.
Student Will:	Combine materials to explore personal artistic style.



Week:	Splash-Tastic Water!
Subject:	Art
Title:	Sun Shadows
Supplies Needed:	<p>Large sheets of paper Paint Brushes An object to form the shadow A sunny day</p>
Duration of Lesson:	2 Days
Teacher Will:	<p>First thing in the Morning have students set their object on the paper, and observe the shadow. Use paint to color in the shadow.</p> <p>Two hours later Make sure your object is in the same place, and paint the new shadow. Repeat this process all day. When the paint is dry, discuss the paintings. Ask students "How did the length of the shadows change? Why? How did their position change? Why would those changes happen?"</p> <p>Shadow Extension Activities Use a protractor to measure the angle change between each shadow. Repeat at different times of the year, and compare the results. Use your data and your latitude to calculate the speed of the rotation of the earth.</p> <p>Continued on next page</p>

Students Will:

Set their object on the paper, and observe the shadow. Use paint to color in the shadow.

Make sure your object is in the same place, and paint the new shadow. Repeat this process all day.



Week:	Splash-Tastic Water!
Subject:	Art
Title:	Sun Mobile
Supplies Needed:	Paper Plate Orange Tissue Paper Yellow Tissue Paper Scissors Glue Yellow Construction Paper Yarn
Duration of Lesson:	45 Minutes
Teacher Will:	<p> Cut squares of tissue paper. Hole Punch top of the plate. Cut yarn Make yellow loops Put orange down in the middle and yellow surrounds. </p> <p> Before the lesson teacher should gather supplies. This craft should be self-guided and teachers should help as needed. </p> <p> Step #1- Have students cut yellow and orange pieces of construction paper. </p> <p> Step #2- Have students glue orange in the middle and then yellow in the outer edges. </p> <p> Step #3- Have students cut yellow strips 8-4 inch strips to use to make the rays. </p> <p> Step #4- Have students attach the rays as loops. </p> <p> Step #5- Then have students cut a piece of yellow yarn to use as the "hanger" for the mobile. </p>
Students Will:	<p> Step #1- Cut small paper squares from yellow and orange paper. Step #2- Glue the squares in the middle of the paper. Step #3- Cut yellow strips for the "sun rays". Step #4- Attach the loops with glue. Step #5- Tie the yellow yarn on the plate. </p>



Week:	Splash-Tastic Water!
Subject:	Art
Title:	Sun Mobile
Supplies Needed:	Paper Plate Orange Tissue Paper Yellow Tissue Paper Scissors Glue Yellow Construction Paper Yarn
Duration of Lesson:	45 Minutes
Teacher Will:	<p> Cut squares of tissue paper. Hole Punch top of the plate. Cut yarn Make yellow loops Put orange down in the middle and yellow surrounds. </p> <p> Before the lesson teacher should gather supplies. This craft should be self-guided and teachers should help as needed. </p> <p> Step #1- Have students cut yellow and orange pieces of construction paper. </p> <p> Step #2- Have students glue orange in the middle and then yellow in the outer edges. </p> <p> Step #3- Have students cut yellow strips 8-4 inch strips to use to make the rays. </p> <p> Step #4- Have students attach the rays as loops. </p> <p> Step #5- Then have students cut a piece of yellow yarn to use as the "hanger" for the mobile. </p>
Students Will:	<p> Step #1- Cut small paper squares from yellow and orange paper. Step #2- Glue the squares in the middle of the paper. Step #3- Cut yellow strips for the "sun rays". Step #4- Attach the loops with glue. Step #5- Tie the yellow yarn on the plate. </p>

Week:	Splash-Tastic Water!
Subject:	English/Language Arts
Title:	Journaling
Supplies Needed:	<p>Notebooks</p> <p>Pencils</p> <p>Colored Pencils/Crayons/Markers</p>
Duration of Lesson:	30-45 Minutes
Teacher Will:	<p>Explain to students that there are no “rules for journaling. Journaling is a way to express oneself in any way that is comfortable for them, including normal journal entries, letters, poems, stories, images, and pictures. Students can journal about life, camp, etc.</p> <p>If students are struggling, here is a prompt: Think of all the times you have had “fun in the sun.” Which time was your favorite and why?</p>
Students Will:	Journal- Free Choice or Topic