
















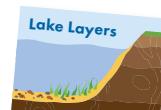






# Bubbles, Boats & Floats

## WEEK 1 DOWN THE RIVER









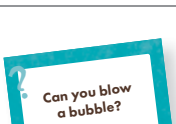

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
<b>LESSON 1</b> <b>Water Paths</b> <small>SCI 2 Natural &amp; Earth Science PD 2 Fine Motor</small>	Pan of rocks & sand Spray bottles Pitchers/cups Water	 	Set out a pan of small rocks and sand. Encourage the children to explore spraying water onto or pouring water over the materials.
<b>LESSON 2</b> <b>Stick Construction</b> <small>MR 7 Logic &amp; Reasoning PD 2 Fine Motor CA 3 Visual Arts SCI 4 Technology</small>	Craft sticks Hook & loop fasteners	 	Attach hook & loop fasteners to the ends of craft sticks. Encourage the children to construct a lodge or any desired structure using the materials.
<b>LESSON 3</b> <b>Boats Galore</b> <small>CA 4 Drama SED 4 Social Relationships SS 3 Geography</small>	Boat-like props: boxes, sleds, laundry baskets Blue sheet Fishing poles and river animal toys (optional)	 	Set out a variety of boat-like props on a blue sheet. Set out fishing poles and river animal toys, if available. Pretend to float down the river in a boat.
<b>LESSON 4</b> <b>Alligator Skin</b> <small>SCI 3 Physical Science PD 2 Fine Motor</small>	Rough-textured items like tree bark or sandpaper Crayons Paper	 	Set out rough-textured items. Place crayons and paper nearby. Encourage the children to make rubbings to create "alligator skin."
<b>LESSON 5</b> <b>Colorful Waterfalls</b> <small>SCI 1 Investigation &amp; Inquiry CA 3 Visual Arts</small>	Spray bottles Colored water Sheets of white paper Tape	 	Fill spray bottles with different-colored water. Tape large sheets of white paper on the walls outside. Encourage the children to spray the water to create colorful waterfalls.

## WEEK 2 ON THE LAKE


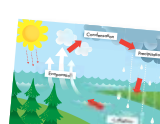







<b>LESSON 6</b> <b>Fishing Gear</b> <small>CA 4 Drama SCI 4 Technology</small>	Foil Pipecleaners Bin of small items	 	Set out pieces of foil, pipecleaners and other flexible materials to create fish hooks. Fill a bin with items for the children to try and catch. Encourage the children to explore hooking items with their handmade fishing hooks.
<b>LESSON 7</b> <b>Nature Boats</b> <small>MR 7 Logic &amp; Reasoning SCI 1 Investigation &amp; Inquiry</small>	Nature items Rubber bands or yarn Bin of water Scissors Trays (2) Float/sink signs	 	Place the Float/Sink Signs each on a tray. Encourage the children to explore which materials will float and which will sink. Place them on the corresponding trays. Invite children to experiment with materials to build a boat. Provide rubber bands or yarn to help with construction.
<b>LESSON 8</b> <b>Make a Lake</b> <small>SCI 3 Physical Science PD 2 Fine Motor</small>	Clear containers with lids Nature items: sand, rocks, leaves Lake Diagram Water	 	Display the Lake Diagram. Talk about what has settled on the lake floor. Set out containers, lids and a variety of nature items. Encourage the children to fill the containers with nature items, then pour in water and close tightly with a lid. Shake the containers, then watch as the items settle.
<b>LESSON 9</b> <b>Duck Feathers</b> <small>SCI 3 Physical Science PD 2 Fine Motor</small>	Feathers Playdough	 	Set out a handful of feathers for the children to feel and explore. Put playdough balls on the table for the children to stick the feathers into.
<b>LESSON 10</b> <b>Rock Structures</b> <small>MR 7 Logic &amp; Reasoning SCI 3 Physical Science</small>	Variety of rocks	 	Set out a variety of different-sized and -shaped rocks. Encourage the children to build rock structures and explore stacking the rocks.



## WEEK 3 SOAPY WATER

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
<b>LESSON 11</b> <b>Foam Soap</b> <small>SCI 3 Physical Science SED 4 Social Relationships</small>	Water Dish soap Bowl Watercolors/food coloring Mixer/blender/food processor Small toys	 	Pour a small amount of water and a good amount of dish soap in a bowl. Add watercolors or food coloring, if desired. Use a handheld mixer, blender or food processor to whip the ingredients until it has a foamy texture. Place the foamy soap in a tub with small toys for the children to explore.
<b>LESSON 12</b> <b>Soapy Squirt Play</b> <small>SCI 3 Physical Science PD 2 Fine Motor</small>	Squeeze bottles Watery dish soap Liquid watercolor Bin	 	Place soap dispensing bottles or squeeze bottles in a bin. Fill them with watery dish soap and liquid watercolor. Encourage the children to experiment with squirting colors into the tub.
<b>LESSON 13</b> <b>Sponge Discovery</b> <small>SCI 1 Investigation &amp; Inquiry MR 7 Logic &amp; Reasoning</small>	Variety of sponges Bin of water Empty containers	 	Set out a bin of water and few empty containers. Place a variety of sponges near the bin of water so the children can explore and experiment with the sponges.
<b>LESSON 14</b> <b>Laundry Day</b> <small>PD 2 Fine Motor SCI 4 Technology</small>	Yarn Tape (optional) Clothespins Fabric or doll clothes Bowl of water	 	Tie a piece of yarn between two chairs or tape it on the wall. Set out clothespins, fabric pieces or doll clothes. Leave out tape and yarn so the children can build additional clotheslines. If desired, set out a bowl of water for the children to “wash” the fabric, then hang it to dry.
<b>LESSON 15</b> <b>Bubble Wands</b> <small>MR 7 Logic &amp; Reasoning PD 2 Fine Motor</small>	Bin Bubble soap Pipecleaners Tape Station Sign	 	Set out pipecleaners and a shallow bin full of bubble soap. Display the Station Sign. Invite the children to construct their own bubble wands, then try to blow bubbles.

## WEEK 4 WONDERFUL WATER

<b>LESSON 16</b> <b>Heavy Clouds</b> <small>SCI 2 Natural &amp; Earth Science SED 3 Attention &amp; Persistence</small>	Cotton balls, sponges, washcloths Bin of water Evaporation Cycle Poster Tape	 	Display the Evaporation Cycle Poster. Set out a bin of water and a variety of materials to soak up water. Encourage the children to explore soaking up water, then wringing it out to create “rain.”
<b>LESSON 17</b> <b>Rainbow Bags</b> <small>CA 3 Visual Arts PD 2 Fine Motor</small>	Paint Clear zip bags Tape	 	Squeeze rainbow paint into clear zip bags. Secure. Encourage the children to explore mixing and spreading the colors.
<b>LESSON 18</b> <b>Freezing &amp; Melting</b> <small>SCI 3 Physical Science PD 2 Fine Motor</small>	Bin of ice cubes Bin of water Large spoon		Set out two bins: one with ice cubes and one with water. Encourage the children to use a large spoon to explore scooping ice into the water and discover what happens.
<b>LESSON 19</b> <b>Water On, Water Off</b> <small>SCI 4 Technology PD 4 Personal Care</small>	Beverage dispenser Water Pouring tools: containers, turkey basters, funnels Bin (optional) Faucet Poster Tape	 	Display the Faucet Poster. Set out a beverage dispenser filled with water. Encourage the children to explore turning the water on and off. If a dispenser is unavailable, fill a bin of water and set out pouring tools like containers, basters and funnels.
<b>LESSON 20</b> <b>Pipes &amp; Funnels</b> <small>SCI 3 Physical Science SCI 4 Technology</small>	Bin of rice or sand Pipes, bowls, funnels Clogged Pipe Poster Tape	 	Display the Clogged Pipe Poster. Ask, “What kinds of things might clog a kitchen sink?” Then fill a bin with sand. Set out various pipes, bowls and funnels for the children to explore. Encourage the children to explore pouring materials into the pipes and funnels.

These open-ended STEAM stations invite children to investigate, problem-solve and create.

- ## ROTATING YOUR STATIONS

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**Can you build  
a river?**



**What type  
of home can  
you build?**



**What do you  
do in a boat?**




**How does  
alligator  
skin feel?**






**Can you paint  
a waterfall?**



**What can  
you use to catch  
a fish?**



**Which nature  
items float?**



**What is  
at the bottom  
of a lake?**





**What type  
of bird can  
you design?**



**Can you  
stack rocks?**



**How does  
foam feel?**



**What happens  
when colors mix?**





**How do  
sponges work?**



**Can you  
hang up laundry?**



**Can you blow  
a bubble?**



**What do  
clouds rain?**





**What colors  
are in a rainbow?**



**Why does  
ice melt?**



**How do  
faucets work?**



**What happens  
if a pipe clogs?**





  
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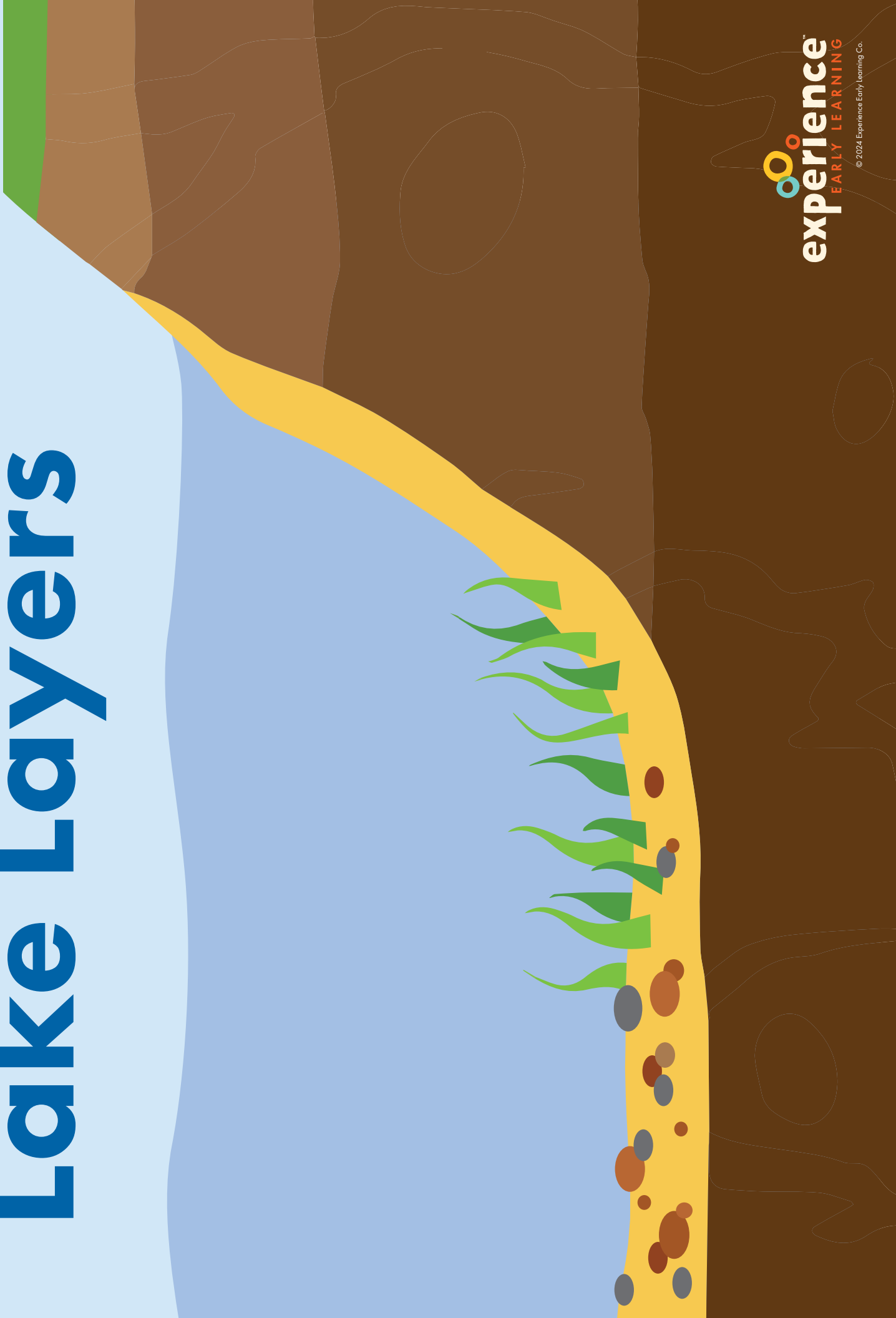
# Sink

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# Float



# Lake Layers



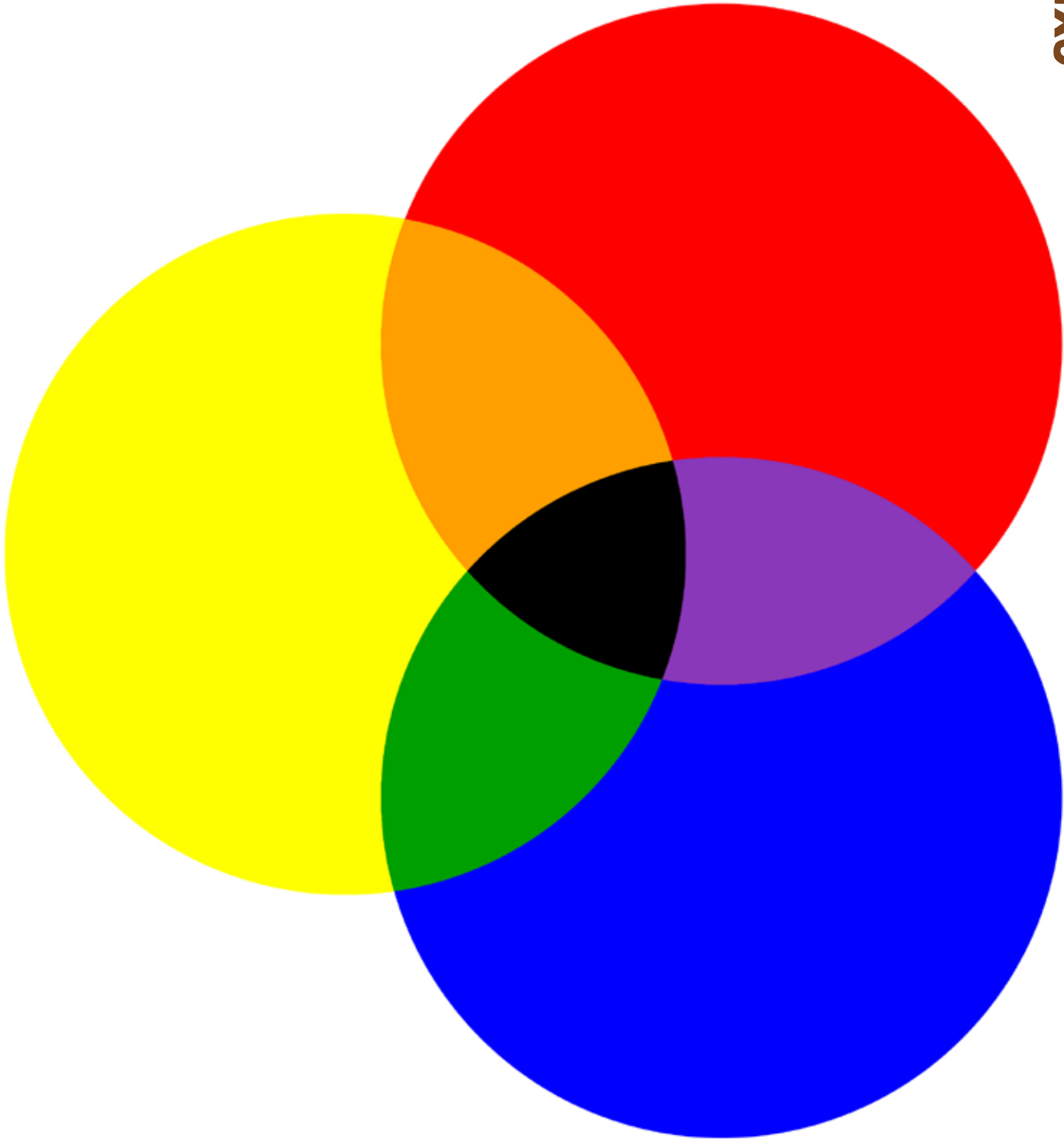












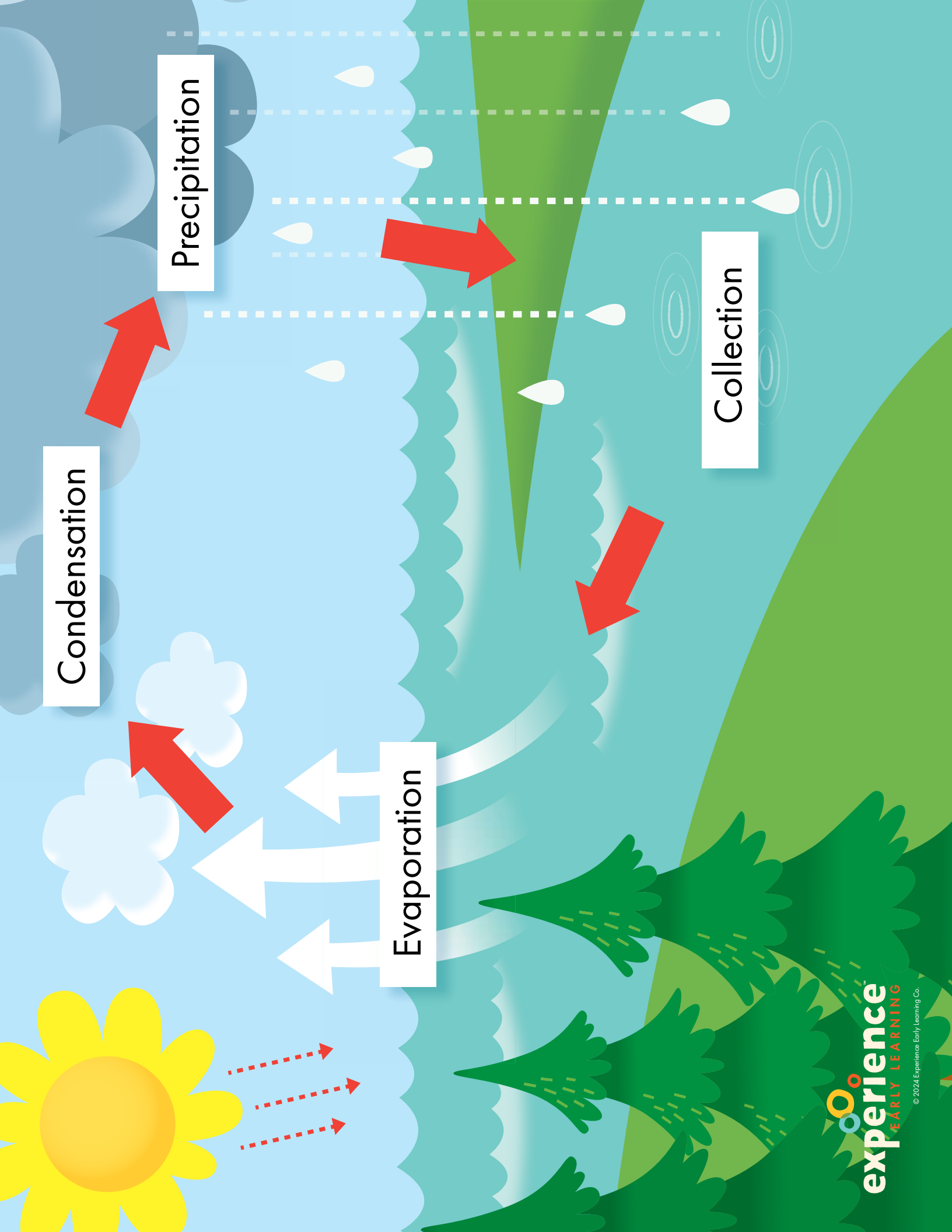






# BUBBLE BLOWING STATION





Condensation

Precipitation

Collection

Evaporation

