























Weather & Seasons











WEEK 1 WEATHER

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
LESSON 1 Building Shade <small>SCI 1 Investigation & Inquiry</small>	Blocks Fabric Cardboard Animal figurines Leaves	 	Explore creating shade by building with blocks and making shade structures with fabric and cardboard. Put figurines under the shade.
LESSON 2 Fan Experiment <small>SCI 4 Technology</small>	Fan Light and heavy objects	 	Gather a variety of heavy and light objects and experiment with putting them in front of a blowing fan. What happens? Record on a chart if it flies through the air or falls.
LESSON 3 Heavy Clouds <small>SCI 1 Investigation & Inquiry</small>	Shaving cream Bowl Eyedroppers Paint Clipboards	 	Put shaving cream on top of water in a bowl. Use an eyedropper to drip blue watery paint into the shaving cream. What happens? Draw observations.
LESSON 4 Snow Dough <small>SCI 1 Investigation & Inquiry</small>	Flour Vegetable oil Glitter (optional)	 	Make snow dough with 4 cups of flour, 1 cup of vegetable oil and glitter (optional). Mix together and put in a sensory tub. Encourage the children to explore the dough and texture.
LESSON 5 Rainbow CDs <small>SCI 4 Technology</small>	CDs Flashlight Yarn	 	Dangle CDs from the ceiling at different heights. Encourage children to shine the flashlights on the CDs and look for rainbows on various surfaces.

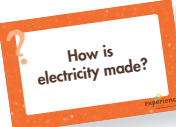








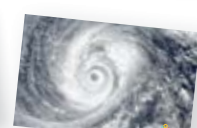
WEEK 2 SEASONS

LESSON 6 Gourd Discovery <small>PD 2 Fine Motor</small>	Tweezers Craft sticks Gourds	 	Cut open 2-3 different types of gourds and set out tweezers, craft sticks and bowls. Use the tweezers to pick out and remove the seeds. Count seeds and place them on the Counting Seeds chart.
LESSON 7 Rainy Sponges <small>SCI 2 Natural & Earth Science</small>	Sponge Water Bowls	 	Explore soaking up and squeezing out water from sponges. Discuss how sponges are like clouds. Move water from one bowl to another.
LESSON 8 Frozen in Ice <small>SCI 4 Technology</small>	Animal figurines Bowls Sticks Hammer	 	Freeze water (with plastic animal figurines inside) in different sized containers. Remove the frozen ice blocks from the containers with a variety of tools for children to investigate as they try to remove an animal from the ice.
LESSON 9 Planting Station <small>SCI 2 Natural & Earth Science</small>	Seeds Dirt Artificial flowers Rocks	 	Mix dirt, rocks and seeds in a sensory table. Set out small shovels and artificial flowers for children to explore and "plant." If desired, grow real seeds and water them each day to watch them grow.
LESSON 10 Zips, Snaps & Gears <small>SCI 4 Technology</small>	Clothing with zippers and snaps	 	Explore zippers and snaps on clothing and compare to how gears function.

WEEK 3 CHANGES

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
LESSON 11 Leaf Rubbings <small>SCI 2 Natural & Earth Science</small>	Crayons Leaves Paper	 	Gather leaves and set them on a table. Encourage children to put paper over the leaves and make rubbings. Investigate the leaf veins.
LESSON 12 Star Constellations <small>SCI 4 Technology</small>	Light table Black paper Hole punch	 	Punch holes in black paper then place on a light table to create star constellations.
LESSON 13 Nature Habitats <small>SCI 2 Natural & Earth Science</small>	Sticks Leaves Rocks Animal figurines Clipboard	 	Gather nature items and sort into containers. Encourage children to draw their ideas for a habitat design, then use the materials inside or outside to build habitats.
LESSON 14 Paper Airplane Experiment <small>SCI 4 Technology</small>	Paper Tape Markers Clipboards	 	Make paper airplanes and measure how far they fly. Improve the design to make them fly farther. If desired, put masking tape lines on the ground and number them 1-10 to measure the distance. Record the distances on the paper.
LESSON 15 Windmill Design <small>SCI 4 Technology</small>	Paper Straws Tape Clipboards	 	Experiment with making windmills. Draw designs, then test to see if they spin in the wind.

WEEK 4 STORMS

LESSON 16 Static Electricity <small>SCI 4 Technology</small>	Foam cups	 	Explore rubbing the cups on hair, then see how they stick to hair or clothing.
LESSON 17 Rolling Hail <small>SCI 3 Physical Science</small>	Blocks Cardboard Balls	 	Investigate ramps and how far objects roll.
LESSON 18 Tornado Bottle <small>SCI 2 Natural & Earth Science</small>	Two-liter bottles (2) Tape Glitter Water	 	Fill one two-liter bottle halfway and add glitter, then tape another two liter bottle securely to it. Quickly twirl the bottle, then flip it upside-down to form a tornado as the water drains into the empty bottle.
LESSON 19 Hurricane Disaster <small>SCI 3 Physical Science</small>	Fabric Yarn Blocks	 	Tie the fabric in a knot to make a ball, then tie yarn around the ball. Build a block tower and swing the ball until it hits the structure. Pretend it is a hurricane blowing buildings down.
LESSON 20 Flooding Bowls <small>SCI 2 Natural & Earth Science</small>	Bowls Blocks Water	 	Put a bowl of water in a sensory tub. Experiment with adding blocks to the bowl until it raises the water to overflowing. Refill the bowl with water and experiment again.

Set-Up Directions

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

- Hang the Big Question and Inspiration Photos on the wall next to the place you set up the investigation.
- If desired, use labels to identify and organize materials children will use (and clean up) as they explore STEAM stations.

ROTATING YOUR STATIONS

- Introduce one new STEAM station daily. Leave that station set up all week. By the end of the week, children will have five stations to explore.



STEAM
STATIONS

STEAM stations integrate perfectly with the monthly Experience Preschool Curriculum kits for a comprehensive research-based early learning system. Learn more and start your research-based curriculum today.

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**How can you
make shade?**



**What blows
in the wind?**



**How do
clouds rain?**



**What does
snow feel like?**



**How can you
make a rainbow?**



**Where do seeds
come from?**



Why does it rain?



**How can you
break ice?**



**How do
seeds grow?**



**How do zippers
and gears work?**



**What shapes
are leaves?**



**What designs
do you see
in the night sky?**



**How can you
build a habitat?**



**How far can
your airplane fly?**



**How can you
design a windmill?**



**How is
electricity made?**



**How far
can balls roll?**



**How is
a tornado made?**



**How are
hurricanes
dangerous?**



**What happens
when a river
floods?**





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Cirrus



Stratus

Cumulus



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How many seeds?

									10
									20
									30
									40
									50
									60
									70
									80
									90
									100

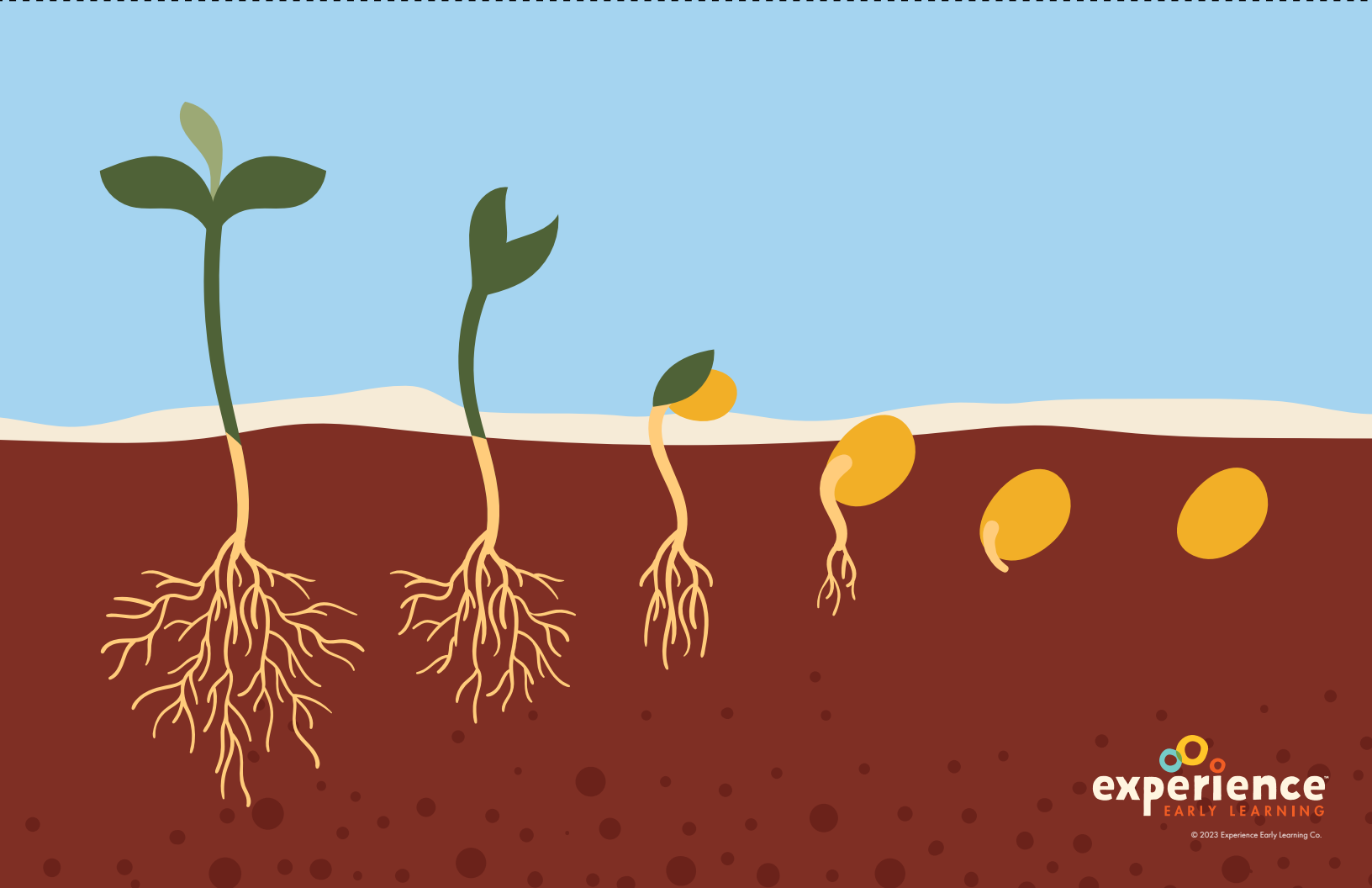





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Maple



Ginkgo

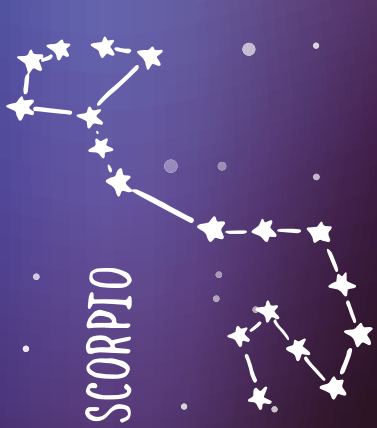


Oak



Beech





SCORPIO



SAGITTARIUS



CAPRICORN



VIRGO



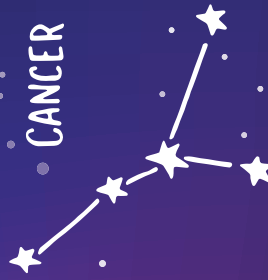
LIBRA



AQUARIUS



LEO



CANCER



GEMINI



TAURUS



ARIES



PISCES






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