







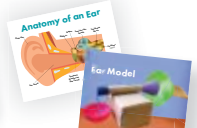











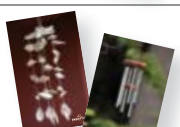


Cozy Winter Senses






WEEK 1 ORCHESTRA

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
LESSON 1 Measuring Noise <small>SCI 1 Investigation & Inquiry MR 4 Measurement</small>	Kitchen items Yarn or string Sticks, spoons		Tie a variety of kitchen pots, pans or other objects to a fence or tree and invite the children to pound on them. Can they make louder or softer sounds by pounding on the pots with different types of sticks, spoons or objects?
LESSON 2 Drum Circle <small>CA 1 Music SCI 1 Investigation & Inquiry</small>	Boxes of different sizes Plastic jugs or trash cans Sticks, spoons	 	Invite the children to use boxes, trash cans or other containers as drums. Explore pounding on different objects to make different sounds. Then make a circle and play drums all together.
LESSON 3 Musical Water Glasses <small>SCI 1 Investigation & Inquiry MR 7 Logic & Reasoning</small>	Glass cups or jars Pitcher of water Spoons, sticks	 	Invite the children to pour different amounts of water in each cup or container then test the sound by tapping on it with a spoon or stick. How do the tones sound different?
LESSON 4 Rubber Band Strings <small>MR 7 Logic & Reasoning SCI 1 Investigation & Inquiry</small>	Blocks Rubber bands	 	Explore stretching rubber bands over blocks and pluck them. What sounds do they make? How does the sound change when the rubber band is stretched tight versus less tight?
LESSON 5 Anatomy of an Ear <small>SCI 3 Physical Science SCI 2 Natural & Earth Science</small>	Bowl Spoon Water Straw Balloon Paper Paper towel tube Box	 	Work together to build the ear model and talk about the parts of the ear while building it. Then explore pounding on the bowl to make vibrations. See how the water moves in response to the vibration. Explain that this demonstrates how sound waves travel through the ear and vibrate the ear drums.






WEEK 2 OUTDOOR SIGHTS & SOUNDS

LESSON 6 Looking for Tracks <small>SED 3 Attention & Persistence SCI 2 Natural & Earth Science</small>	Animal figurines Sensory table (optional) Snow dough (optional)	 	Use animal figurines to make tracks outside in the dirt or snow. If desired, create snow dough in your sensory table and play with toy animals in it to make tracks.
LESSON 7 Ice Sounds <small>SCI 2 Natural & Earth Science SCI 1 Investigation & Inquiry</small>	Ice cubes Spoons Bowls Trays Water Cups	 	Encourage the children to experiment with different ways to make sounds with ice. For example: Shake ice in a cup, pour water over ice, tap a spoon on the ice.
LESSON 8 Owl in the Tree <small>SCI 2 Natural & Earth Science CA 4 Drama</small>	Box Nature items Plush owl or photo of owl Scissors	 	Set out a box and make an opening on one side. Invite the children to use nature items to build a nest inside the box for the owl. Pretend to feed it and talk about what animals and birds need to survive.
LESSON 9 Bell Tower <small>SCI 1 Investigation & Inquiry MR 7 Logic & Reasoning</small>	Craft sticks Yarn Jingle bells Blocks String Cups Pipecleaners	 	Set out craft sticks, yarn and a bowl of jingle bells in the blocks area. Provide other building materials like string, cups and pipecleaners. Encourage the children to build a bell tower or structure with the supplies.
LESSON 10 Wind Chimes <small>SCI 1 Investigation & Inquiry SCI 4 Technology</small>	Nature or recycled items Shells Yarn Stick	 	Make mobiles to create your own wind chimes. Gather nature items or recycled things from around the room and dangle them from a branch with yarn. Explore blowing on the mobile or take it outside to move in the wind. What sounds does it make?

WEEK 3 INDOOR SIGHTS & SOUNDS

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
<p>LESSON 11 Mouse Maze <small>SCI 4 Technology MR 2 Spatial Awareness</small></p>	<p>Sheets of cardboard or paper Markers Cotton balls or marbles Extra paper/crayons (optional)</p>		<p>Encourage the children to draw 2D or build 3D mazes. Imagine a mouse in the maze.</p>
<p>LESSON 12 Pouring Tech <small>SCI 4 Technology CA 4 Drama</small></p>	<p>Objects for pouring Cups Bowls Funnels Different types of pitchers Empty water bottles</p>		<p>Experiment with different objects to see what pours easily and what is more difficult to pour. Try water, beans, rice, pompoms and other objects. What tools help pouring?</p>
<p>LESSON 13 Spiced Playdough <small>PD 2 Fine Motor CA 4 Drama</small></p>	<p>Playdough (see Recipe Card) Cookie cutters Rolling pin or dowel</p>		<p>Mix ingredients well and heat until mixture holds together. Cool the dough, then shake spices on it and fold it together. Invite the children to help you roll it out and use cookie cutters to make pretend cookies.</p>
<p>LESSON 14 Indoor/Outdoor Bowling <small>SCI 3 Physical Science SED 4 Social Relationships</small></p>	<p>Empty water bottles Ball</p>		<p>Set out empty water bottles and invite the children to take turns rolling a ball at them to knock them down. Encourage the children to help set the pins back up to keep the fun going!</p>
<p>LESSON 15 Hot & Cold Colors <small>SCI 1 Investigation & Inquiry SCI 3 Physical Science</small></p>	<p>Watery paint Eyedroppers Paper Clear zip bags Shaving cream Food coloring (optional)</p>		<p>Explore mixing colors with paint and eyedroppers (or use optional sensory bags--see below). Talk about the color and temperature of water, fire and other natural elements. Optional: Fill three clear zip bags with shaving cream and food coloring. Squeeze to mix colors.</p>

WEEK 4 LIGHT & DARK

<p>LESSON 16 Light Up <small>SCI 4 Technology PD 2 Fine Motor</small></p>	<p>Translucent plastic cups Paper cups Light table, flashlight or battery-operated tea lights</p>		<p>Experiment with light shining through different types of objects such as translucent plastic colored cups. Use a light table, flashlight or battery-operated tea lights.</p>
<p>LESSON 17 Salt Crystals <small>SCI 1 Investigation & Inquiry SCI 4 Technology</small></p>	<p>Epsom salts Light table Magnifying glass Water Measuring cups</p>		<p>Explore the crystals by scooping with hands and measuring cups. Put them on a light table and make paths with your finger through the salt. Investigate with a magnifying glass and experiment later in the week by adding the salt to water.</p>
<p>LESSON 18 Find Shadows <small>MR 7 Logic & Reasoning LLD 7 Writing</small></p>	<p>Bucket Chalk</p>		<p>Invite the children to draw faces (add hair, glasses or other features as desired) on the sidewalk, then encourage them to stand with their backs to the sun so that their shadows fit on the drawings.</p>
<p>LESSON 19 Growing Sugar Crystals <small>SCI 3 Physical Science SCI 1 Investigation & Inquiry</small></p>	<p>Sugar Water Jar Cotton string/yarn Pencil Saucepan Stovetop</p>		<p>Boil water, then slowly stir in sugar until it will no longer dissolve. Pour this liquid into a jar. Tie a string to the pencil, then rest the pencil on the jar's rim so that the string is as close to the bottom as possible. Watch as crystals form on the string over the coming days.</p>
<p>LESSON 20 Moon Crater <small>MR 4 Measurement MR 7 Logic & Reasoning</small></p>	<p>Bin or bowl of flour Rocks</p>		<p>Set out a bowl or bin of flour. Invite the children to take turns standing above the bowl, then dropping a rock into the flour. Observe how the rock lands and how the flour reacts. Why are some of the craters deeper or longer than others?</p>

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.
- Use the 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 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 loud
and quiet sounds?**



**What beat
can you play?**




**Can you make
music with water?**




**Why do
strings make
different sounds?**



**How does
the ear work?**



**What tracks
can you find?**



**What sounds
can ice make?**



**Can you build
an owl tree nest?**




**Can you build
a bell tower?**



**Can you build
chimes?**



**Can you make
a maze?**



**What tools
help you pour?**




**How does the
playdough smell?**



**Will you roll
the ball fast
or slow?**



**What are
hot colors?
Cool colors?**



**What allows light
to shine through?
What does not?**



**How do the salt
crystals feel
and look?**



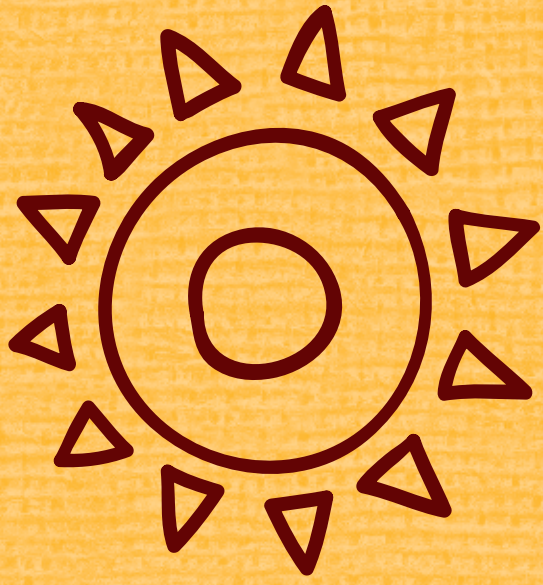
**What makes
shadows bigger
or smaller?**



**Can you grow
a sugar crystal?**



**Can you make
a moon crater?**



Drum Circle





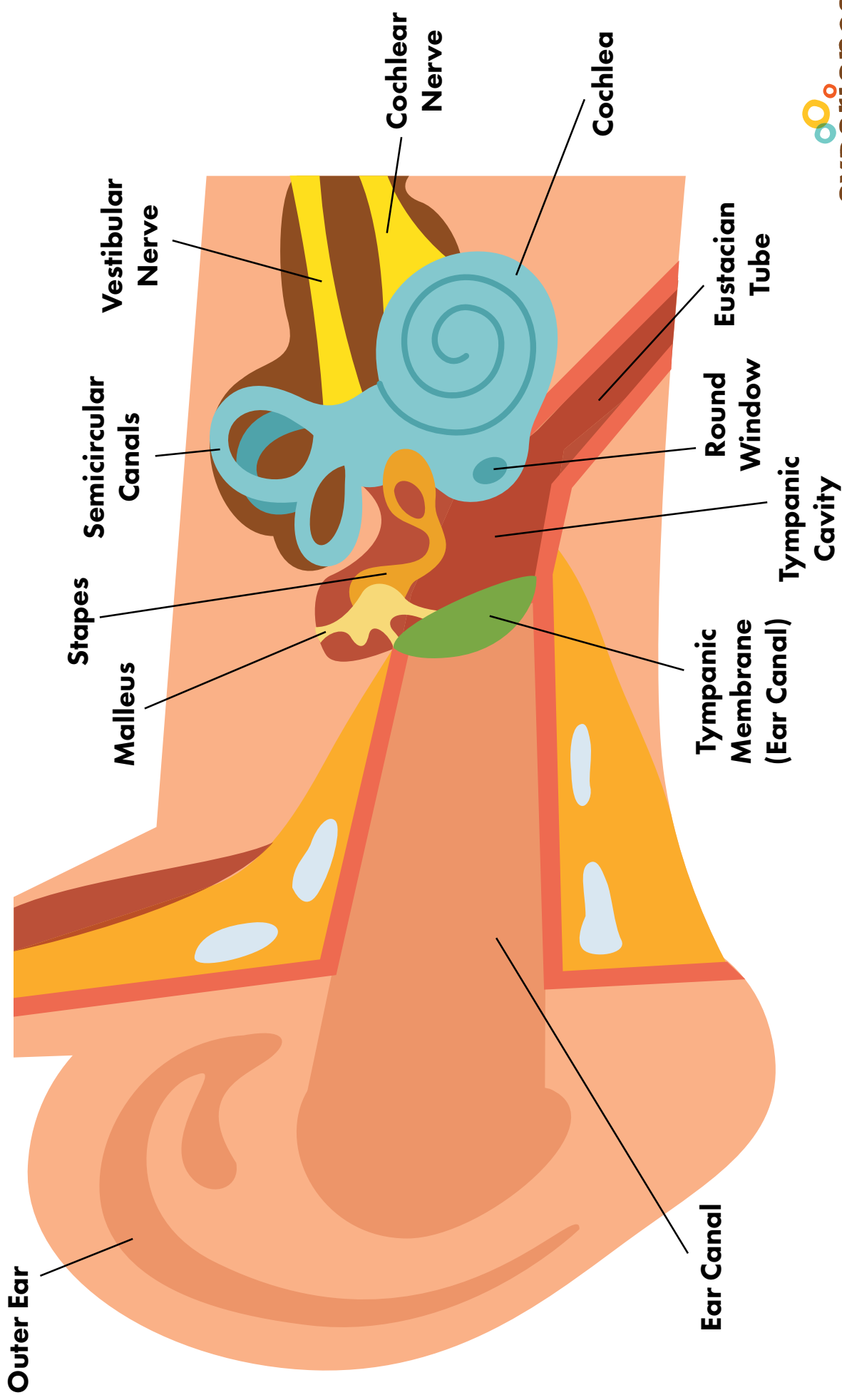



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Anatomy of an Ear



Ear Model





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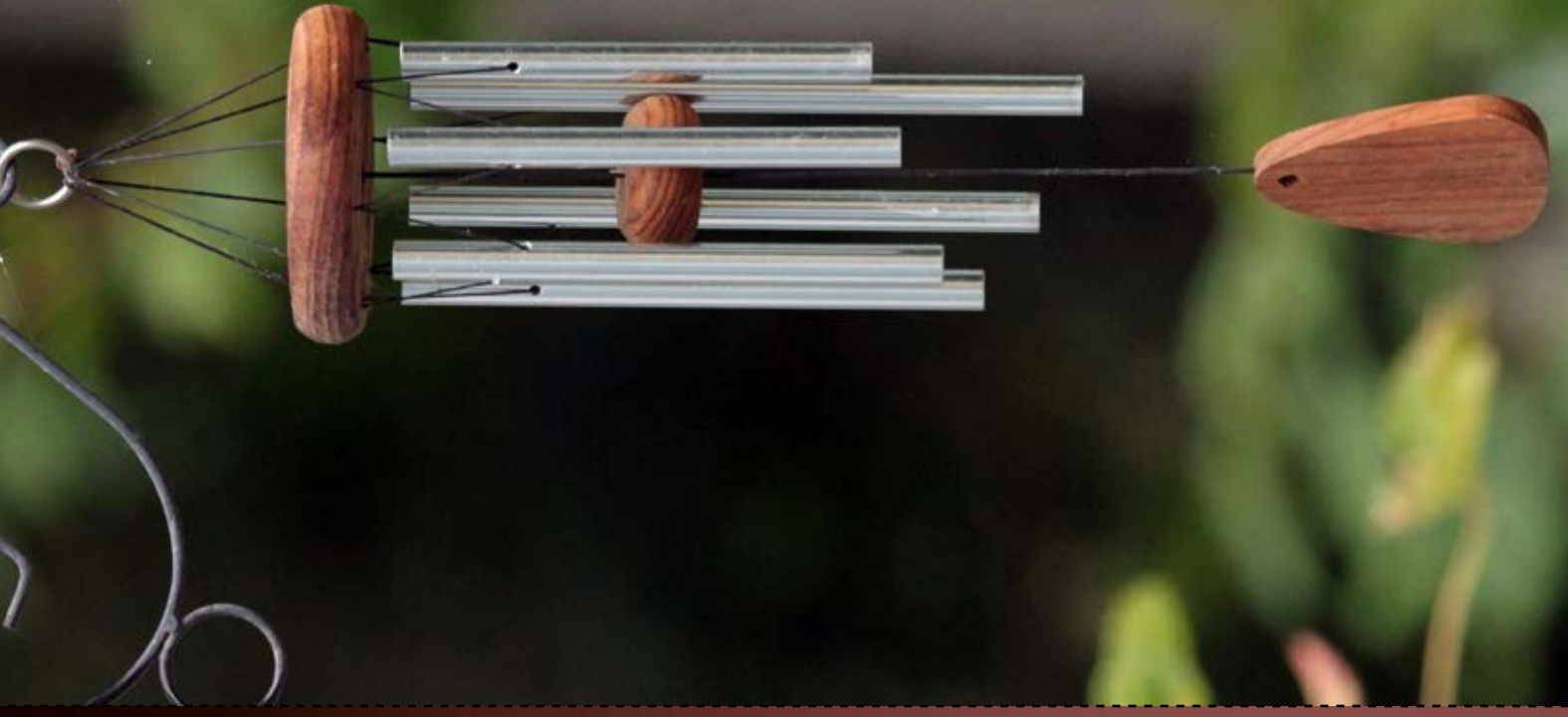



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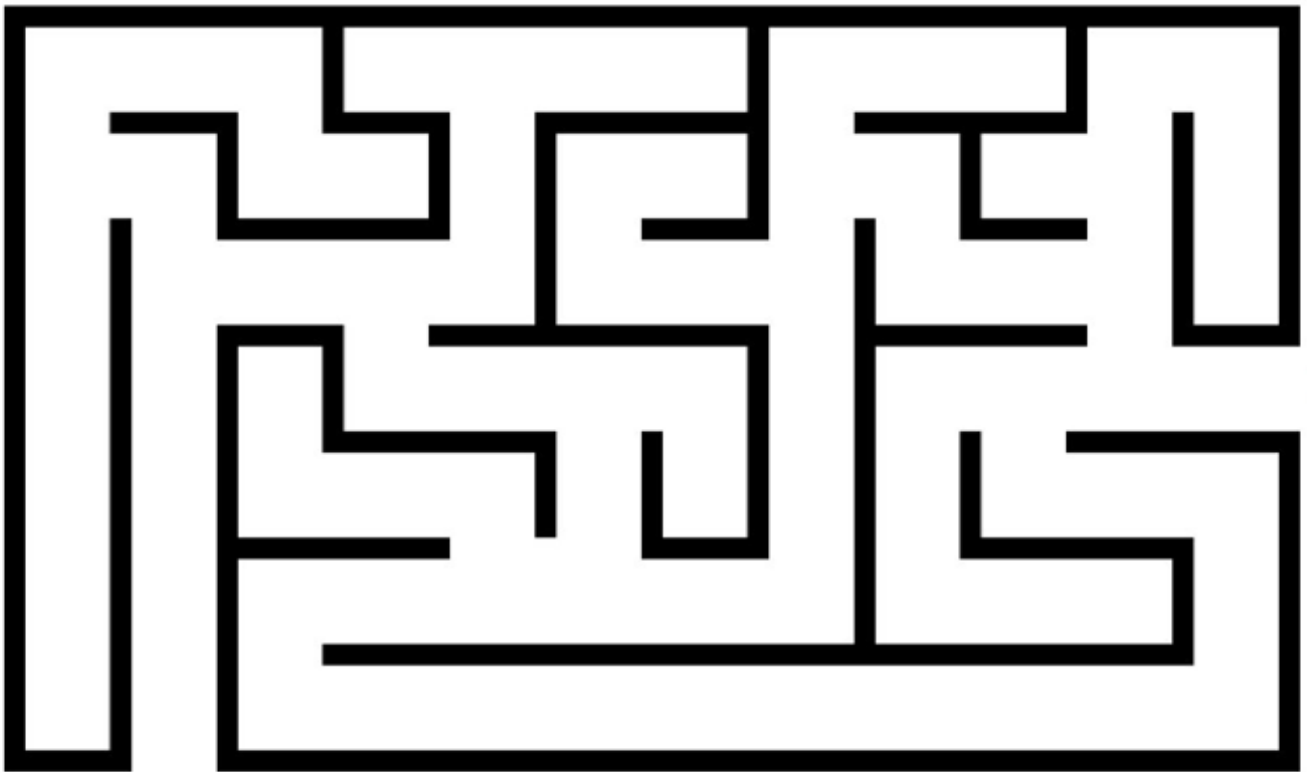

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Spiced Playdough

1 cup flour
1/2 cup salt
2 tsp. cream of tartar
2 TBS. oil
1 cup cold water
Food coloring (optional)
Spices (i.e. cinnamon,
nutmeg, cloves,
pumpkin pie spice)





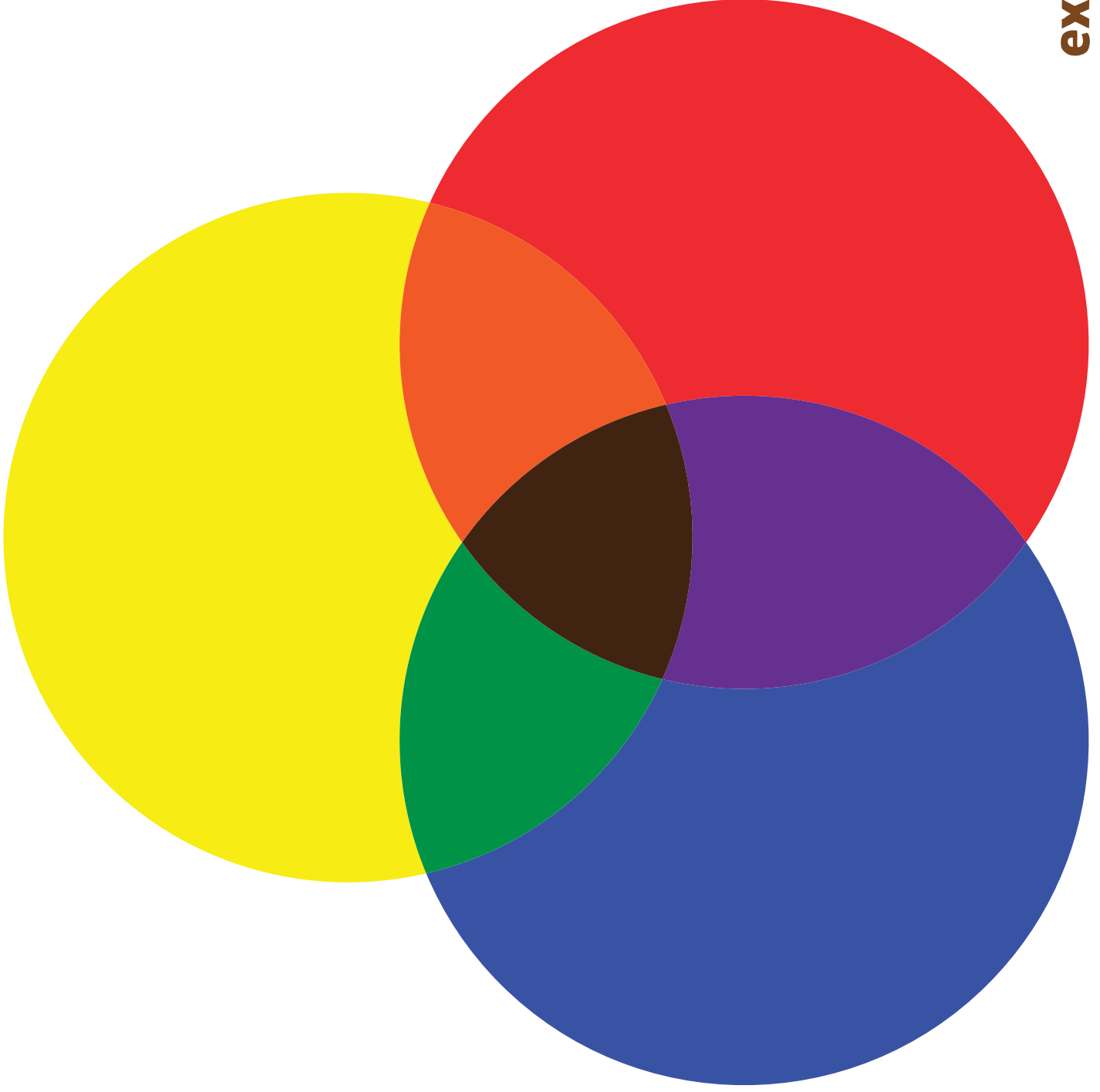





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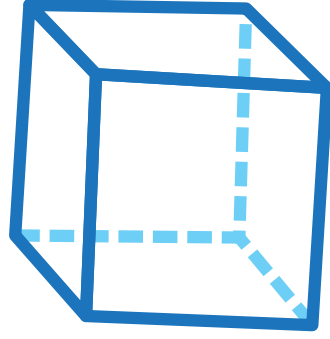



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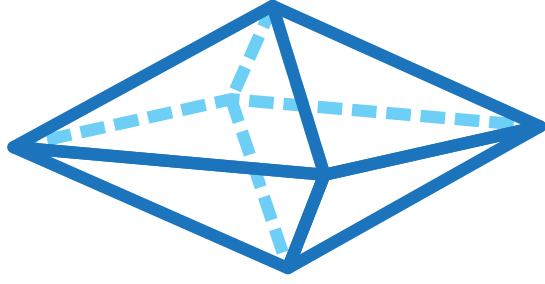




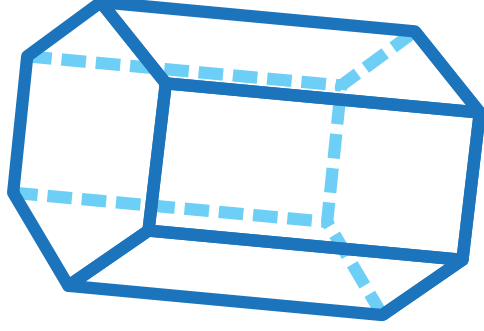
Types of Crystals



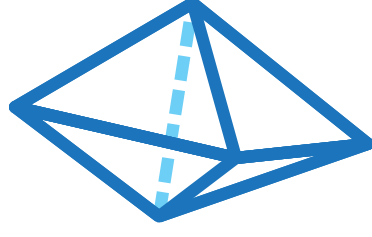
Cubic



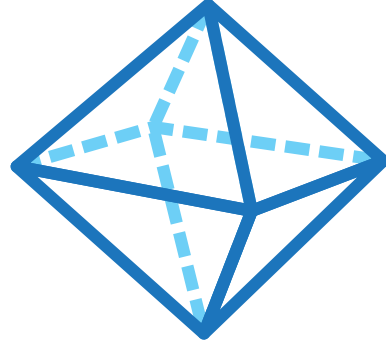
Tetragonal



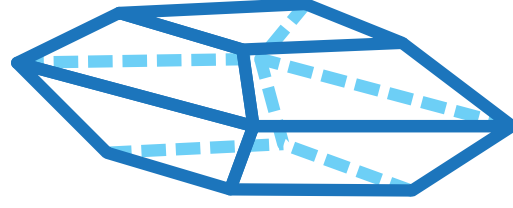
Hexagonal



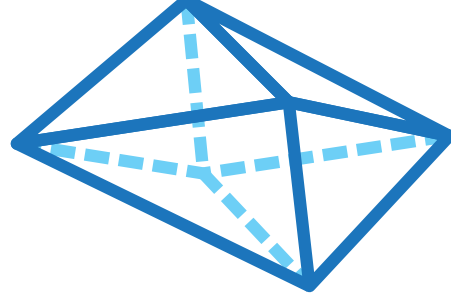
Trigonal



Orthorhombic



Monoclinic

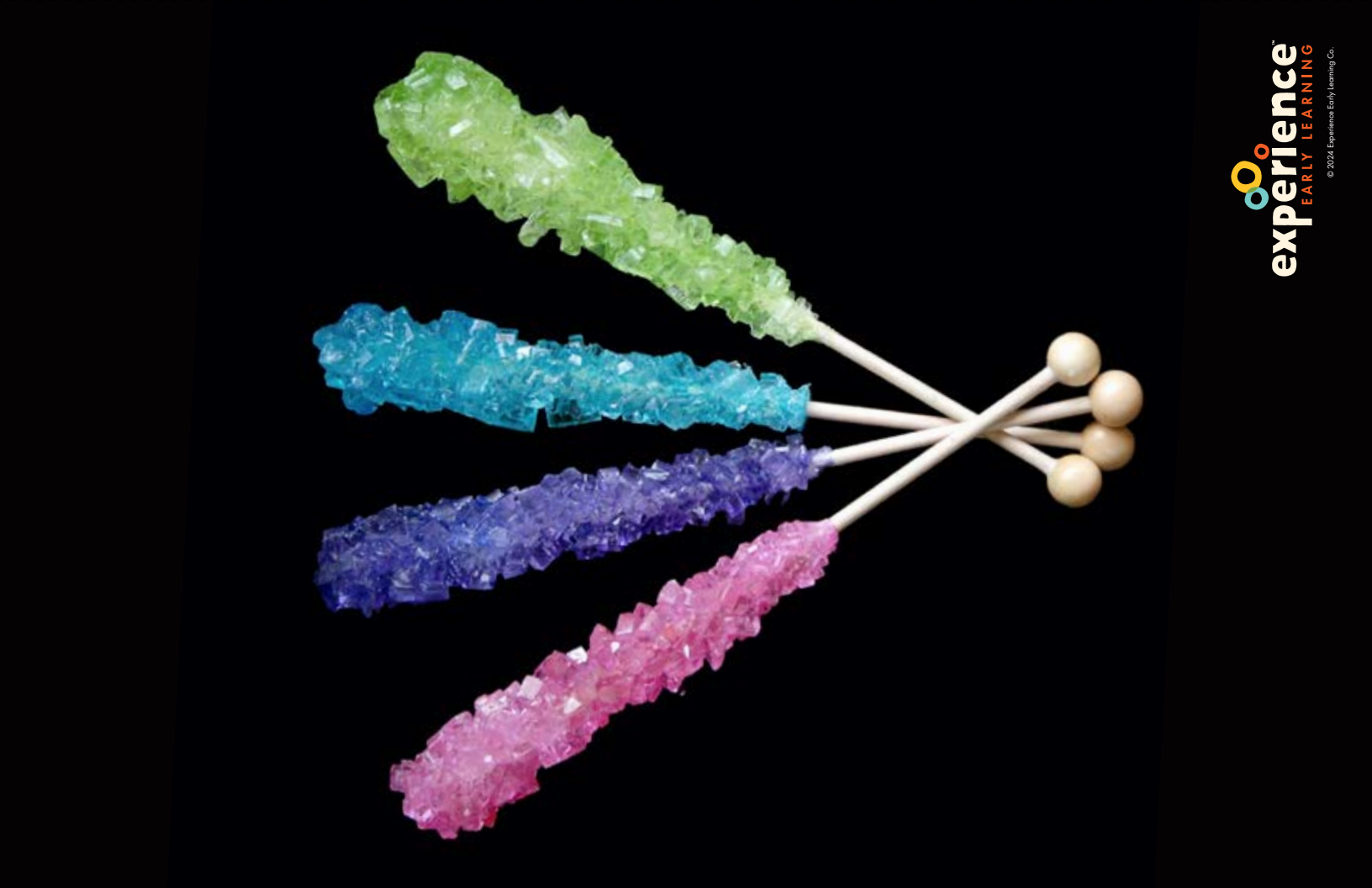


Triclinic



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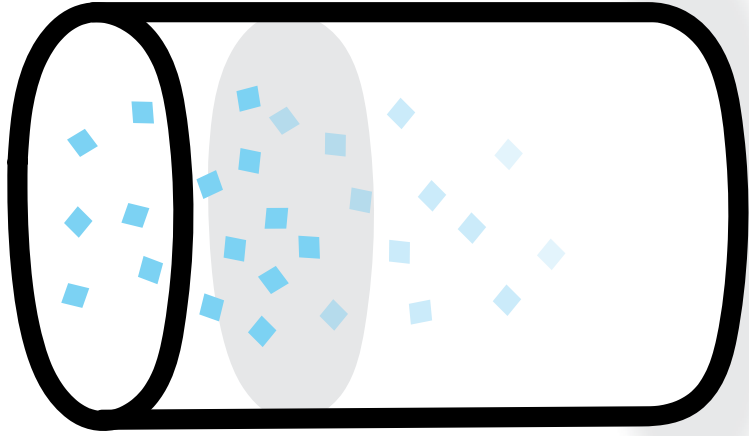
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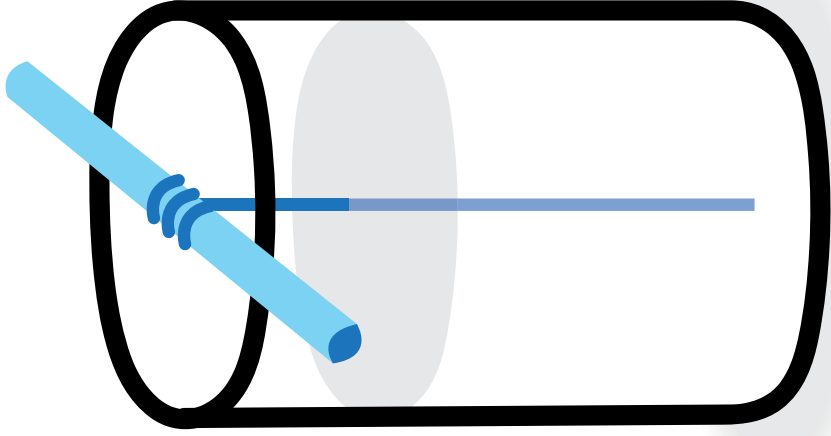
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How to Make Sugar Crystals



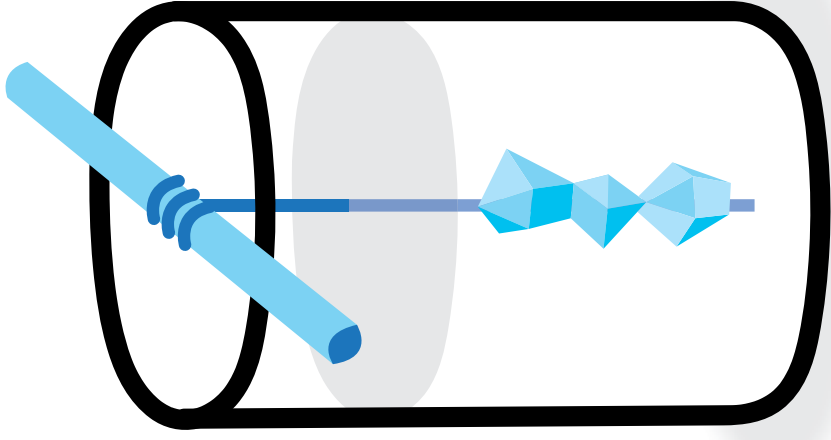
Step 1

Mix and stir approximately 2 cups water with 6 cups sugar. Dissolve sugar in hot water.



Step 2

Tie string to a straw, then place over a glass or jar.



Step 3

Observe.




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