
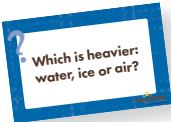


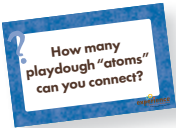



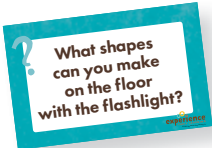





# Science Lab


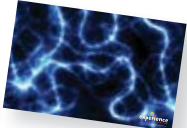






## WEEK 1 CHEMISTRY LAB

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
<b>LESSON 1</b> <b>Mystery Boxes</b> <small>SCI 3 Physical Science MR 7 Logic &amp; Reasoning</small>	Boxes Scissors Markers Photos of various items you have on hand		Create a few “mystery boxes” by cutting a hole in each one, then labeling them with a question mark. Place an item in each mystery box. Encourage the children to feel what is inside, then try to match a real item to its photo.
<b>LESSON 2</b> <b>Water, Ice, Air</b> <small>SCI 1 Investigation &amp; Inquiry SCI 3 Physical Science</small>	Balloons or vinyl gloves Water and ice		Fill balloons or vinyl gloves with water, ice and air. Encourage the children to explore the differences in weight, shape, texture, etc.
<b>LESSON 3</b> <b>Mixing Station</b> <small>PD 2 Fine Motor SCI 1 Investigation &amp; Inquiry</small>	Salt, sand Mixing utensils Bowls Water		Set up a mixing station outside with flour, salt, sand, water, utensils and bowls. Encourage the children to explore mixing the materials together.
<b>LESSON 4</b> <b>Science Lab</b> <small>SCI 4 Technology CA 4 Drama PD 3 Safety</small>	Lab apparel: button-up shirts, gloves, safety goggles Beakers/containers Eyedroppers Magnifying glasses or microscope		Set out a variety of science equipment and lab apparel. Invite the children to pretend they are scientists working in a lab.
<b>LESSON 5</b> <b>Building Molecules</b> <small>MR 7 Logic &amp; Reasoning SCI 1 Investigation &amp; Inquiry</small>	Playdough Craft sticks or link strips		Encourage the children to roll playdough ball “atoms,” then explore connecting them with craft sticks or link strips into different “molecules.”

## WEEK 2 PHYSICS LAB

<b>LESSON 6</b> <b>Vibration Station</b> <small>SCI 3 Physical Science CA 1 Music</small>	Rubber bands Containers: tin can, shoe box, plastic bottle		Wrap rubber bands around containers of different sizes/shapes/materials, then encourage the children to explore plucking the bands and feeling the vibrations.
<b>LESSON 7</b> <b>Writing in the Dark</b> <small>LLD 7 Writing SCI 4 Technology SS 1 Culture &amp; Community</small>	Sheet Table Crayons Paper Flashlights		Build a tent with a sheet and a table, then place flashlights, paper and crayons inside. Encourage the children to explore drawing and writing in the dark.
<b>LESSON 8</b> <b>Golf Game</b> <small>PD 1 Gross Motor SCI 3 Physical Science</small>	Boxes Scissors Marker Balls Toy golf clubs or sticks		Cut holes into the sides of boxes and write a number above each hole. Encourage the children to hit small balls into the holes using toy golf clubs or sticks.
<b>LESSON 9</b> <b>Slow &amp; Fast</b> <small>SCI 1 Investigation &amp; Inquiry MR 7 Logic &amp; Reasoning</small>	Ramp-building materials: cardboard, blocks, etc. Wheeled toys		Invite the children to build a ramp in the block area, then encourage them to explore what makes things move faster and slower.
<b>LESSON 10</b> <b>Drop a Rock</b> <small>SCI 3 Physical Science PD 2 Fine Motor</small>	Bowls of water Rocks Towel (optional)		Set out bowls of water and a variety of rocks. Encourage the children to experiment with dropping rocks into the water bowls from different heights.

## WEEK 3 ENGINEERING LAB

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
<b>LESSON 11</b> <b>Sticky Electricity</b> <small>SCI 1 Investigation &amp; Inquiry MR 7 Logic &amp; Reasoning</small>	Tissue paper Balloon Variety of different items	 	Set out pieces of tissue paper and a balloon, along with a variety of different items to explore “sticky electricity.”
<b>LESSON 12</b> <b>Foundations</b> <small>MR 7 Logic &amp; Reasoning SCI 1 Investigation &amp; Inquiry</small>	Bins Foundation materials: sand, water, rocks, dirt Blocks		Set out some bins, each filled with foundation material such as sand, water, rocks or dirt. Set out blocks and encourage the children to build on top of these various foundations.
<b>LESSON 13</b> <b>Twist It Tight</b> <small>PD 2 Fine Motor SCI 1 Investigation &amp; Inquiry</small>	Various fasteners: nuts, bolts, washers Cardboard Scissors	 	Set out various fasteners for the children to explore. If desired, poke holes into cardboard pieces and encourage the children to investigate inserting and manipulating the fasteners.
<b>LESSON 14</b> <b>Moving Magnets</b> <small>SCI 3 Physical Science SS 3 Geography</small>	Paper strips or masking tape Magnets Tape Toy vehicles Blocks	 	Arrange paper strips or masking tape “roads” on the floor. Tape a small magnet to a few toy vehicles and invite the children to explore moving them with another magnet. Create obstacles with blocks.
<b>LESSON 15</b> <b>Flying Objects</b> <small>SCI 3 Physical Science PD 1 Gross Motor</small>	Parachute or sheet Bin of weighted items: toys/balls/leaves		Encourage the children to explore tossing toys/balls/leaves into the air using a parachute or large sheet.

## WEEK 4 BIOLOGY LAB

<b>LESSON 16</b> <b>Constructing Shelters</b> <small>SED 1 Self-Awareness SCI 2 Natural &amp; Earth Science</small>	Building materials: cardboard boxes, tubes, blocks, sticks Animal/people figurines (optional)	 	Set out a variety of building materials, then encourage the children to construct a home or shelter for people or animals. Set out toy animals and people, if desired.
<b>LESSON 17</b> <b>Playdough People</b> <small>PD 4 Personal Care PD 2 Fine Motor</small>	Playdough Pipecleaners/ toothpicks/straws Yarn	 	Encourage the children to explore creating people with the dough, then use other materials to make features like hair, legs, arms, etc.
<b>LESSON 18</b> <b>Silly Animal Parts</b> <small>MR 2 Spatial Awareness SED 1 Self-Awareness</small>	Pictures of animals Scissors		Cut various animal pictures in half and place them on a table. Encourage the children to match the animal halves or create a silly animal.
<b>LESSON 19</b> <b>Expanding Soap</b> <small>SCI 1 Investigation &amp; Inquiry SCI 3 Physical Science</small>	Ivory™ brand soap Microwave		Place a bar of Ivory™ soap in a microwave-safe bowl and heat it for two minutes. Encourage the children to explore the texture of the soap.
<b>LESSON 20</b> <b>Fairy Houses</b> <small>SCI 2 Natural &amp; Earth Science CA 4 Drama</small>	Nature items	 	Work together to build “fairy houses” with sticks, leaves, rocks, etc. Imagine what kind of fairy might live in each house.

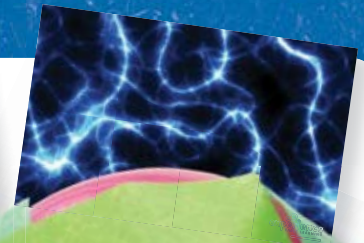
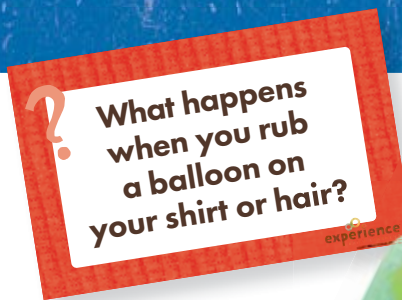
## Set-Up Directions

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.

[ExperienceCurriculum.com](https://www.ExperienceCurriculum.com)





**How can you  
guess what's  
in the box?**



**Which is heavier:  
water, ice or air?**



**Do you think it's  
more fun to mix  
solids or liquids?**




**Why do you  
think scientists  
wear gloves  
and goggles?**




**How many  
playdough “atoms”  
can you connect?**



**What kind of  
stringed instrument  
can you make?**



**What shapes  
can you make  
on the floor  
with the flashlight?**




**How can you  
move the balls  
into the holes?**



**How can you  
make things  
roll fast? Slow?**



**How do little  
splashes sound  
different than  
big splashes?**



**What happens  
when you rub  
a balloon on  
your shirt or hair?**




**What kind  
of foundation  
do you think  
is best to build on?**




**What kinds  
of things can  
fasteners connect?**



**Can a magnet  
move something  
without touching it?**



**Which items  
can you make  
fly highest?**



**What kind of  
materials will  
you use to build  
a shelter?**



**What will you  
use to make arms?  
Legs? Hair?**



**What is the  
silliest animal  
you can imagine?**



**Why do you think heat makes the soap larger?**



**What materials will you use to make your house?**



**What's  
inside  
the  
Box?**

A close-up photograph of water with ripples and a few bubbles, creating a shimmering, textured surface.

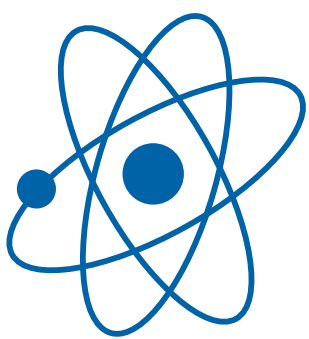
WATER

A collection of clear, irregular ice cubes, some with sharp edges and others more rounded, set against a light blue background.

ICE

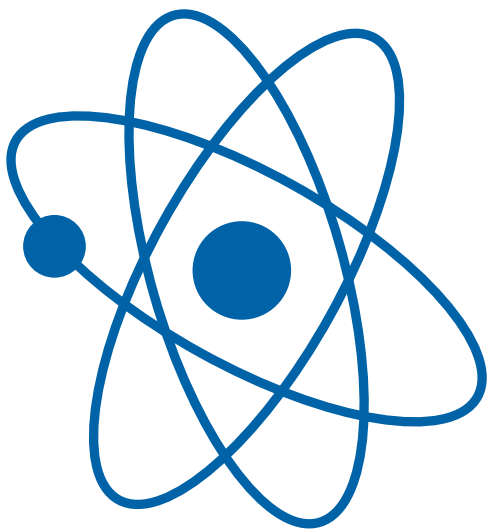
A soft, hazy blue background with a subtle gradient, suggesting the presence of steam or mist.

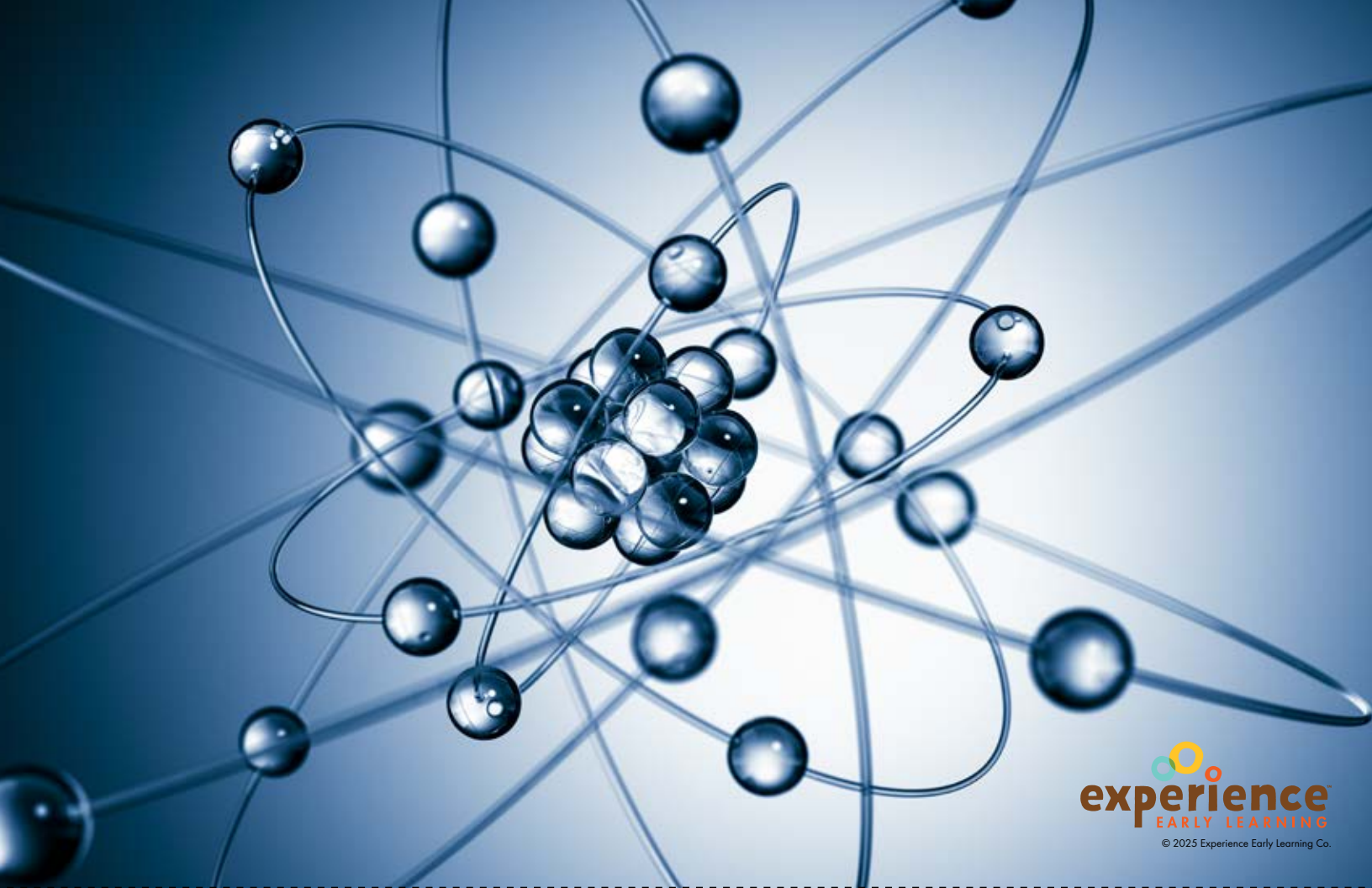
STEAM



# SCIENCE

# LAB





  
**experience**  
EARLY LEARNING  
© 2025 Experience Early Learning Co.



  
**experience**  
EARLY LEARNING  
© 2025 Experience Early Learning Co.



**experience**  
EARLY LEARNING

© 2025 Experience Early Learning Co.



**experience**  
EARLY LEARNING

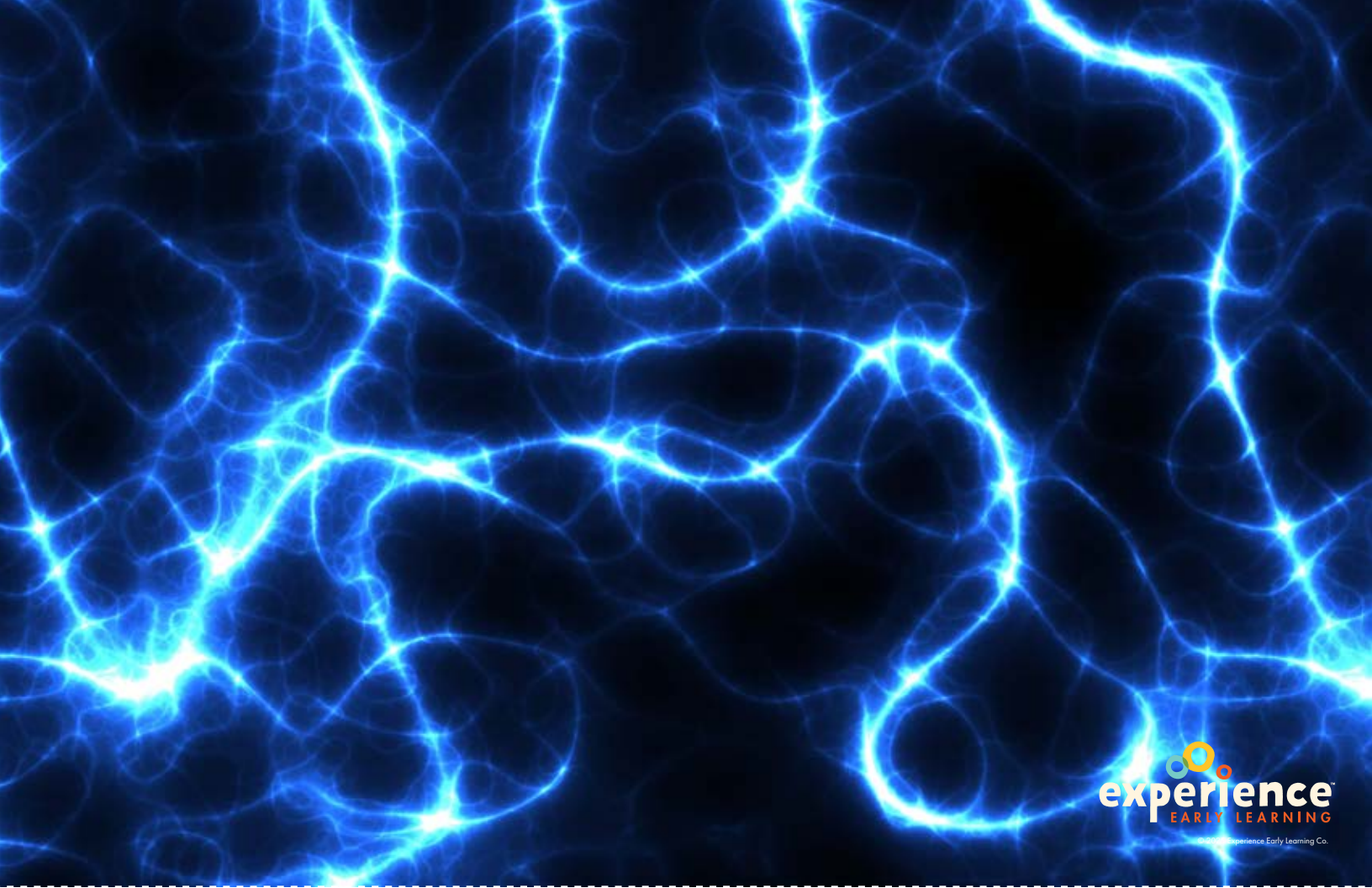
© 2025 Experience Early Learning Co.



  
© 2025 Experience Early Learning Co.



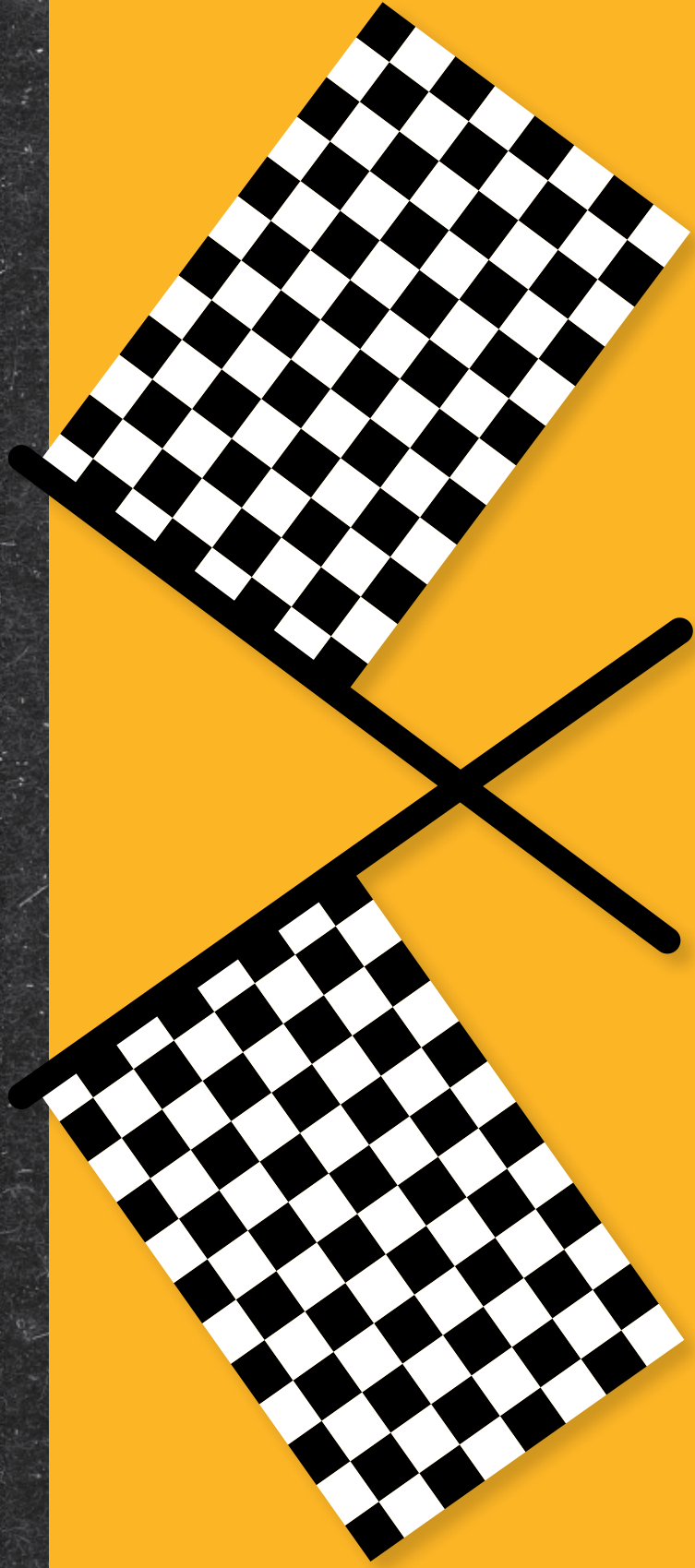
  
© 2025 Experience Early Learning Co.



  
**experience**  
EARLY LEARNING  
© 2025 Experience Early Learning Co.



  
**experience**  
EARLY LEARNING  
© 2025 Experience Early Learning Co.



# **MAGNET SPEEDWAY**





