



... 15-Minute ...
In-Service Suites



STEAM



NATIONAL CENTER ON

Early Childhood Development, Teaching and Learning



STEAM Stretches Across the ELOF Domains

	CENTRAL DOMAINS				
	APPROACHES TO LEARNING	SOCIAL AND EMOTIONAL DEVELOPMENT	LANGUAGE AND LITERACY	COGNITION	PERCEPTUAL, MOTOR, AND PHYSICAL DEVELOPMENT
▲ INFANT/TODDLER DOMAINS	Approaches to Learning	Social and Emotional Development	Language and Communication	Cognition	Perceptual, Motor, and Physical Development
● PRESCHOOLER DOMAINS	Approaches to Learning	Social and Emotional Development	Language and Communication	Mathematics Development	Perceptual, Motor, and Physical Development
			Literacy	Scientific Reasoning	





STEAM Stretches Across the ELOF Domains



- Cognition (Infant/Toddler)
 - Exploration and Discovery
 - Memory
 - Reasoning and Problem-Solving
- Cognition(Preschooler)
 - Mathematics Development
 - Scientific Reasoning
- Approaches to Learning
- Social and Emotional Development
- Language and Communication
- Perceptual Motor and Physical Development

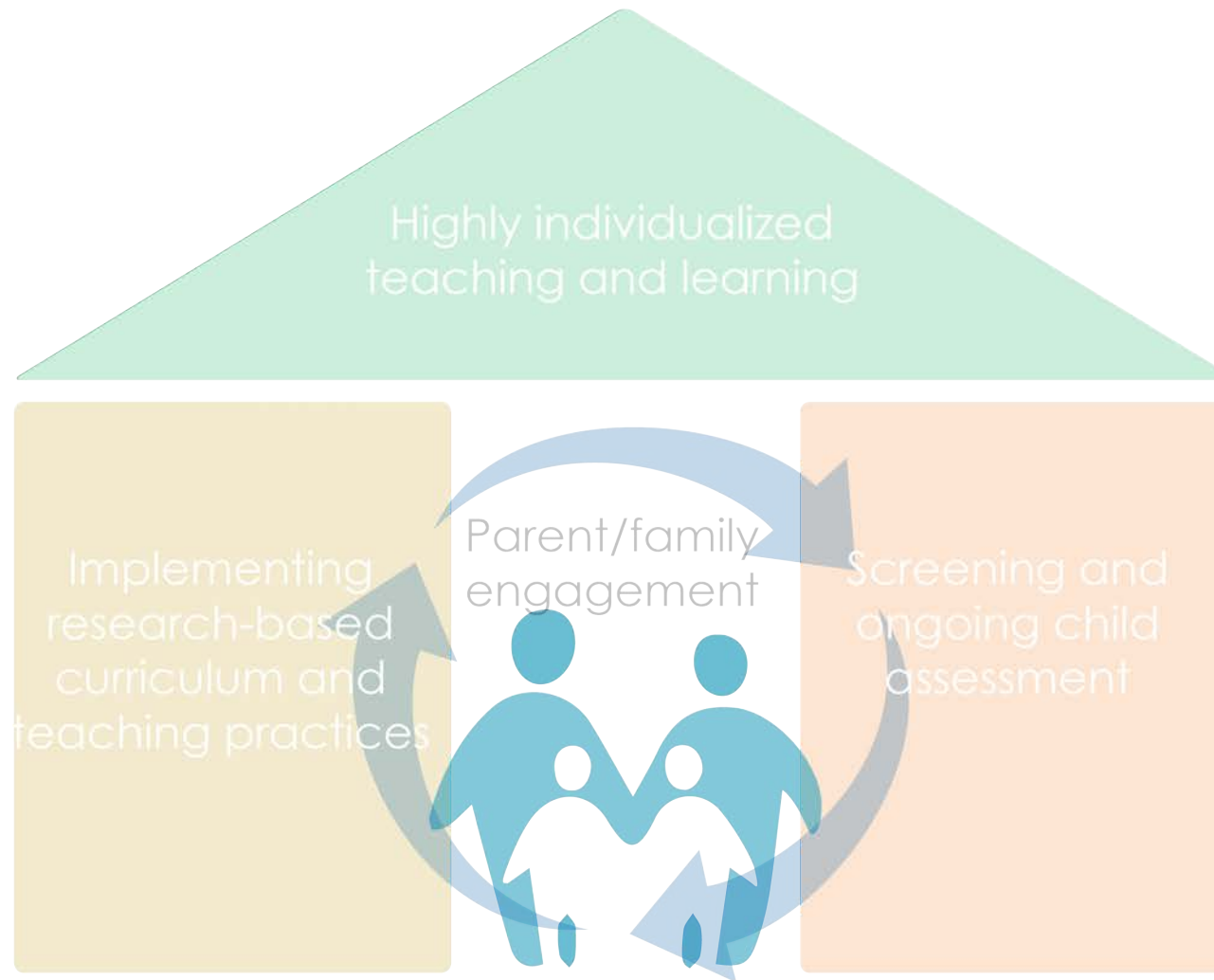


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Nurturing, responsive, and effective interactions
and engaging environments





Objectives

- **Identify** ways infants, toddlers, and preschoolers naturally engage in inquiry, reasoning, and problem solving through every day routines and learning opportunities
- **Describe** how the STEAM components share a common approach and focus
- **Provide strategies** to support children's inquiry and STEAM skills in the early education setting and at home



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What is STEAM?



Science



Technology



Engineering



Art



Math



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STEAM is for Everyone

STEAM is about *how* people explore the world, not which facts they know.



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STEAM is All Around



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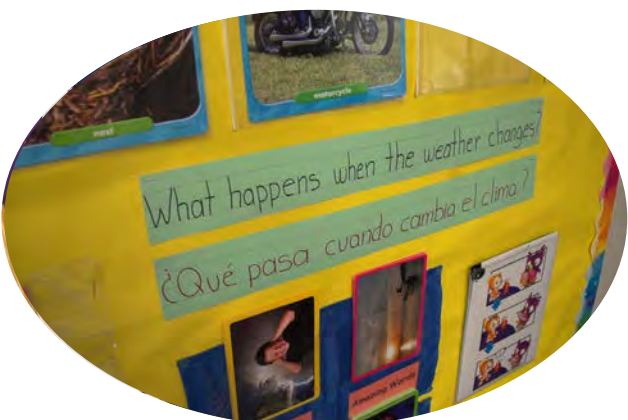
A Common Approach and Focus



STEAM Mindset



STEAM Knowledge



Language of
STEAM



STEAM-related
Skills



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STEAM Mindset



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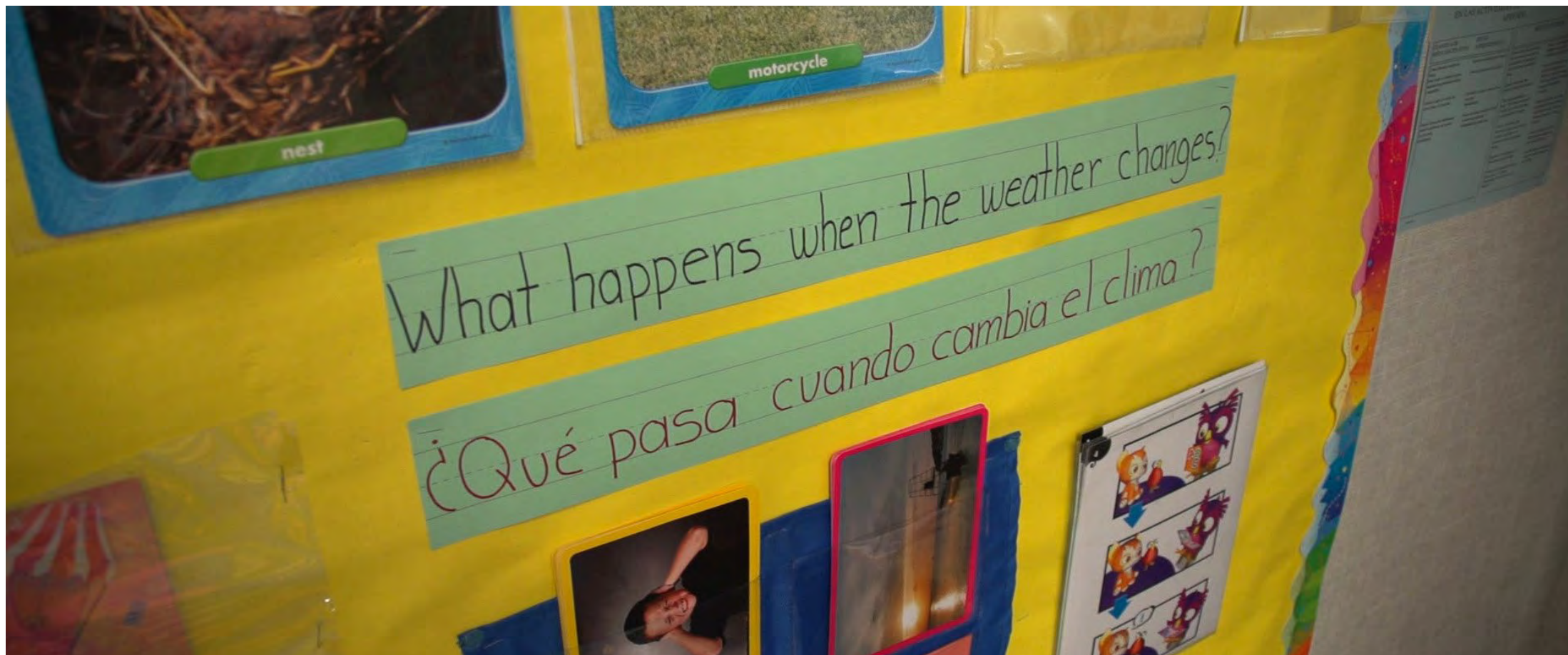
STEAM Knowledge



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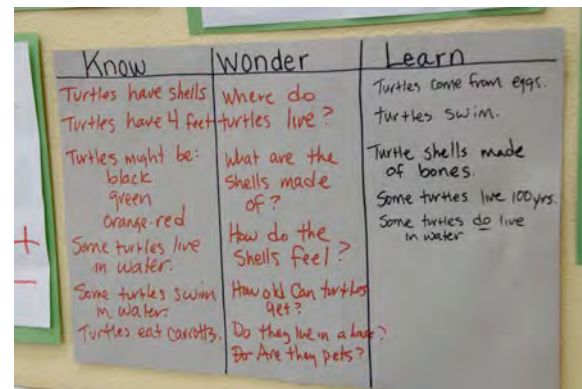
Language of STEAM





Speak The Language Of STEAM

- Observe, observation
- Question
- Predict, prediction
- Similar, different
- Compare, contrast
- Measure
- Count
- Investigate
- Explore
- Experiment
- Test
- Discover
- Record
- Explain
- Hypothesize, hypothesis, guess





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STEAM-related Skills



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How We Can Support STEAM Learning



Engaging
Environments



Nurturing, Responsive, &
Effective Interactions



Learning Experiences /
Activities





Engaging Environments

Provide open-ended materials



Use a variety of materials



Engage the senses

Consider children's developmental levels

Pay attention to children's interests



Arrange materials so they are accessible



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Nurturing, Responsive, & Effective Interactions



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Learning Experiences/Activities



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Learning Activity: STEAM in Everyday Experiences & Activities



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Review

