## What is **STEAM?**

STEAM is an educational approach to learning that encompasses Science, Technology, Engineering, the Arts and Mathematics. This type of learning encourages hands-on and active instruction.



## **WHY STEAM?**

While the children are building an understanding through communication and inquiry, STEAM can help develop cognitive skills such as critical thinking and problem-solving skills.

## **Inspire STEAM Discovery Through These Methods**

- Problem Solving Ask children to be problem solvers with you. How can we make sure everyone gets a turn? How can we organize our space? How can we work together to get ready for this project?
- Sensory Bins Fill containers with various things that children can feel with their hands: sand, water, beads and yarn, cotton balls, paper and hole punchers, or letter and shape manipulatives.
- Maker's Space Area Bring in a variety of materials for children to reimagine: newspapers, craft materials, magazines, cardboard, plastic. Can they make something new with an old jug?
- Age-Appropriate Science and Math Centers Include things like plastic beakers, manipulatives to discover, a magnifying glass, plastic tools such as tweezers, eye droppers, large magnets, counting blocks, or color cubes.
- Dress Up Station Let children imagine with different costumes and props.

## Encourage STEAM Thinking Through **Open-Ended Questions**

- ♦ What do you think is happening here?
- ♦ What do you think will happen next? What do you think happened before to make this happen?
- Tell me about what you're thinking as you make this, play this, read this...
- What do you notice?
- ♦ How can we find out about...
- ♦ How did this make you feel? How do you think it made others feel?
- ♦ How or why do you think that happened?
- How can we make this better or do this differently next time?
- ♦ What can we learn from this?

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