WHAT DO KINDERGARTENERS LEARN IN STEM?

STEM FLUENCY ✦ CAREER EXPLORATION ✦ ROBOTICS, CODING, & COMPUTATIONAL THINKING

NISD's STEM Program is Unique

NISD's STEM curriculum is based on the Technology Applications TEKS, Career and Technical Education alignment, Texas Career Clusters, and Texas Education Agency's STEM Fluency Skills and Computational Thinking documents.

STEM Fluency Skills

You may have heard people talk about the need for employees to have "soft skills" to be successful in a job. The Texas Education Agency provides educators with descriptions of "STEM Fluency Skills" rather than soft skills. STEM Fluency Skills include: Collaboration, Communication, Critical Thinking, Creativity, and Resilience.

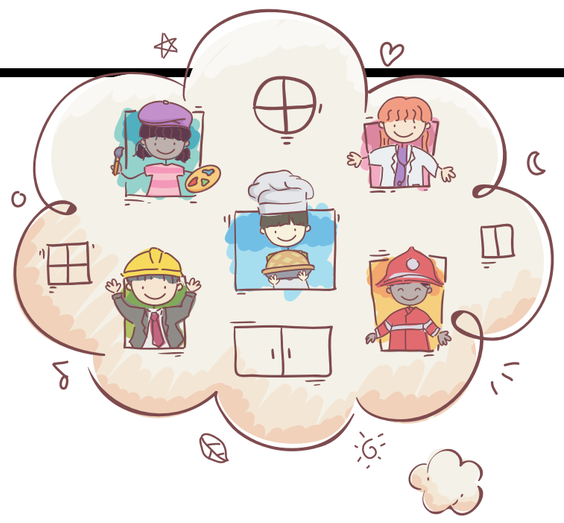
They say this about STEM Fluency Skills: "STEM education also includes a fluency in the skills associated with career readiness and workforce development."

Keyboarding

STEM Teachers introduce keyboarding to Kindergarten students, so that they can locate keys for numbers, letters, and the space bar.

Robotics, Coding, and Computational Thinking

Each year during STEM class, students practice the computation thinking skills to logically solve problems when coding and programming robots. These skills get more complex each year.



Career Explorations

During Career Explorations units each year students learn about and explore a variety of STEM careers. These careers align with CTE courses in middle and high school.

Health Science

Most kids are familiar with doctors and nurses, but in STEM class, they get to learn more about what they do and practice using some of the same tools that professionals use!

Civil Engineering

Civil Engineers help our community by building structures like bridges that help people move around their community. Students design, build, and test different types of bridges, so they can learn how to build strong structures.