

Spark Inspire STEM Lab

February STEM Newsletter
Designing Solutions Through Technology

A Message from the STEM Lab

February is an exciting month as students step into the role of engineers, programmers, and innovators! Throughout the month, learners will explore robotics and digital design while discovering that technology is not just something we use — it is something we can create to improve the world around us.

Kindergarten – Grade 1: My First Robot Adventure

Our youngest learners will explore robotics through hands-on play and structured challenges. Students will give robots directions, build pathways, practice fixing mistakes (debugging), and collaborate with classmates. These experiences strengthen early problem-solving skills while building confidence and perseverance.

Ask your child: “What directions did you give your robot today?”

Grades 3–5: Robotics Maze Design Challenge

Students will design original mazes and program robots to navigate through them successfully. Along the way, they will write algorithms, test their code, debug errors, and improve their designs through iteration. This real-world engineering process promotes critical thinking, teamwork, and resilience.

Ask your child: “What problem did you solve when your robot didn’t reach the goal?”

Presidents’ Week

School will be closed during Presidents’ Week. We hope everyone enjoys a safe, restful break and we look forward to welcoming students back for an exciting capstone experience!

Minecraft Education — Designing a Better World

To close out the month, students will participate in a powerful design challenge: **Build something that makes the world a better place.** Projects may include sustainable cities, animal shelters, cleaner environments, community spaces, or innovative transportation. Students will present their creations and explain how their design positively impacts others.

Ask your child: “How does your Minecraft world help people?”

What We Are Building in STEM

By the end of February, students will think like engineers, solve problems with confidence, collaborate with peers, persist through challenges, and recognize their ability to improve the world through innovation. We are not just learning STEM — we are preparing students for the future!