

STEM Field Trip Proposal

Engage, Explore, and Innovate!

Dear Educators,

We are excited to offer an enriching STEM field trip experience that will engage your students through hands-on learning and real-world applications of science, technology, engineering, and math. Our interactive stations are designed to reinforce key educational standards and spark curiosity in the next generation of innovators.

Our stations include:

- Circuitry
- 3D Printing
- Electromagnetism
- Sensors

Please see the details below on how these stations connect with your curriculum and inspire learning in an exciting and practical way.



5679 Coral Ridge Road,
Coral Spings, FL, 33076



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www.XaiRobotics.com



561-593-0433

1. Circuitry Station

Overview: Learn the fundamentals of electricity and circuits.

Activities:

- Build simple circuits with batteries, switches, and LEDs.
- Discover how electrical energy flows and powers devices.

Standards Alignment:

- SC.912.P.10.2 - Explore the Law of Conservation of Energy.
- MA.K12.MTR.7.1 - Apply mathematics to real-world contexts.

2. 3D Printing Station

Overview: Step into the world of 3D design and watch ideas take shape.

Activities:

- Learn 3D modeling software basics.
- Watch your design come to life with a 3D printer.

Standards Alignment:

- MA.K12.MTR.5.1 - Use patterns and structure to connect mathematical concepts.
- MA.K12.MTR.1.1 - Actively participate in creative problem-solving.



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3. Electromagnetism Station

Overview: Discover the invisible forces of electromagnetism.

Activities:

- Create and experiment with electromagnets.
- Understand how electricity and magnetism interact.

Standards Alignment:

- SC.912.P.10.1 - Recognize energy transformations.
- SC.912.P.10.2 - Explore electromagnetism's role in energy processes.

4. Sensors Station

Overview: Explore how sensors are used in modern technology.

Activities:

- Work with light, motion, and temperature sensors.
- Program sensors to trigger actions in simple circuits.

Standards Alignment:

- MA.K12.MTR.7.1 - Apply mathematics to real-world data analysis.
- SC.912.PE.3.3 - Design and implement simulations using sensors.



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Field Trip Logistics:

Duration: Based on Number of Students

Location: Onsite at your School or at the Workshop

Who Can Attend: 5th - 12th Grade Students

Contact us today to schedule a field trip and inspire the next generation of innovators!



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