

ATTA Library of STEM & History 6th Grade Field Trip Summary

Dear Educators,

We are excited to invite your 6th-grade students to an engaging and interactive field trip at the ATTA Library of STEM & History in Abbeville, AL. Our program is designed to align with the Alabama Course of Study standards and provides hands-on learning experiences in key science concepts, including:

- **Virtual Reality Exploration:** Students will have access to VR headsets to explore key concepts in space science like the Apollo 11 mission and tour of the I.S.S.. Scale the Universe Interactive shows planets, stars, and galaxies to understand distance and scale.
- **Interactive Sandbox:** This hands-on activity allows students to manipulate topography and observe real-time landscape changes, connecting earth science and geography with technology.
- **Demonstration on Distance in Space:** An interactive demonstration will help students grasp the immense scale of the universe and the distances between celestial bodies.
- **Energy & Weather Systems:** Engaging activities will demonstrate how energy transfers through systems, forming weather patterns influenced by the sun.
- **Measurement:** Hands-on measurement class/activity for all students.

During the visit, students will participate in inquiry-based experiments, interactive demonstrations, and real-world applications to deepen their understanding of these essential concepts.

Trip Details:

- 📍 **Location:** ATTA Library of STEM & History, Abbeville, AL
- 📅 **Available Dates:** Wednesdays 9am-3pm – Contact Us to Reserve Date
- ⌚ **Duration:** 3-4 Hours
- 💰 **Cost:** \$10/student, \$12/adult, + \$2/student for Turing Tumble Activity
- 🎒 **What to Bring:** Your excitement, manners, and curiosity!

Contact Information:

- ✉️ Kate@The-ATTA.org
- 📞 334-585-ATTA

We look forward to providing your students with an exciting educational experience that supports their classroom learning. Please contact us to schedule your visit or ask any questions.

ATTA Library of STEM & History 7th Grade Field Trip Summary

Dear Educators,

We are excited to invite your 7th-grade students to an engaging and interactive field trip at the ATTA Library of STEM & History in Abbeville, AL. Our program is designed to connect with the Alabama Course of Study and provide hands-on learning experiences in computer science, computational thinking, and problem-solving. Activities include:

- **Turing Tumble – Mechanical Computing:** Students use marbles and mechanical components to build and operate simple computers while discovering how computers process information.
- **Algorithms & Problem-Solving:** Students work through challenges by planning solutions, testing their ideas, identifying errors, and improving their designs.
- **Computer Logic:** Hands-on activities introduce students to the logic behind computer operations and demonstrate how simple instructions can produce more complex outcomes.
- **Bits & Binary:** Students explore how bits can store information in two states and connect this concept to the binary system used by electronic computers.
- **Computational Thinking:** Students break complex problems into smaller steps, collaborate to find solutions, and use logical reasoning to complete challenges.
- **Measurement:** Hands-on measurement class/activity for all students.

The Turing Tumble activities are a particularly strong fit with Alabama's current Grade 7 Digital Literacy and Computer Science standards.

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ATTA Library of STEM & History 8th Grade Field Trip Summary

Dear Educators,

We are excited to invite your 8th-grade students to an engaging and interactive field trip at the ATTA Library of STEM & History in Abbeville, AL. Our program is designed to align with the Alabama Course of Study standards and provides hands-on learning experiences in key science concepts, including:

- **Density & Matter:** Hands-on experiments demonstrating mass, volume, and density relationships.
- **Motion & Forces:** Interactive activities exploring Newton's Laws of Motion, friction, and acceleration.
- **Forces & Interactions:** Engaging demonstrations on balanced and unbalanced forces, gravity, and inertia.
- **Waves & Their Properties:** Hands-on exploration of sound and light waves, including amplitude, frequency, and wave behavior.
- **Magnetism:** Investigating magnetic fields, electromagnets, and real-world applications.
- **Measurement:** Hands-on measurement class/activity for all students.

During the visit, students will participate in inquiry-based experiments, interactive demonstrations, and real-world applications to deepen their understanding of these essential concepts.

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ATTA Library of STEM & History 9th-12th Grade Field Trip Summary

Dear Educators,

We are excited to invite your 9th-12th grade students to an engaging and interactive field trip at the ATTA Library of STEM & History in Abbeville, AL. Our program is designed to align with the Alabama Course of Study standards and provides hands-on learning experiences in key science concepts, including:

Physical Science:

- **Motion and Forces:** Interactive demonstrations on Newton's Laws, friction, and projectile motion.
- **Waves and Their Properties:** Experiments with sound and light waves, including wave interference and resonance.
- **Matter and Its Interactions:** Activities exploring chemical reactions, states of matter, and conservation of mass.
- **Energy:** Activities on energy transfer, thermodynamics, and types of energy.
- **Measurement:** Hands-on measurement class/activity for all students.

Earth and Space Science:

- **Earth's Systems:** Exhibits on geologic processes and climate systems.
- **Astronomy:** Earth to Moon distance activity, telescopic observations, and stellar phenomena.

During the visit, students will participate in inquiry-based experiments, interactive demonstrations, and real-world applications to deepen their understanding of these essential concepts.

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