

STEM Learning Experiences

Field Trips (1, 2 & 3-hours)

After-School Programs

Alignment with Standards

NC Essential Standards
NGSS with crosswalks
CCSS (Math & ELA)

Extensions Available

Math, Science, Social Studies, ELA, Art

Designed to fit your curriculum,
budget, group size and schedule!



Dr. Stephen L. Page

- Retired superintendent of Henderson County Public Schools
- Former Associate Superintendent of Buncombe County Schools
- Zaniac Asheville Education Advisor & Co-Owner

“As a superintendent of schools and as a principal, I’ve dedicated my career to educating and mentoring our youth.

Zaniac’s STEM enrichment offerings are powerful programs guaranteed to save teachers time, enrich your lesson plans and increase the fun kids have learning at school.”



For Schools (Grades 1-8)

Fun, uniquely engaging STEM enrichment programs for teachers to supplement or add to your curriculum and lesson plans.



Our flexible offerings allow you to bring your students to Zaniac for a full course or field trip, or bring Zaniac directly to your students at your school with on-site instruction during or after school.



Zaniac Asheville

One Town Square Blvd., Ste. 120
(At Biltmore Park Town Square)
828.575.0355

www.ZaniacLearning.com/Asheville



To Schedule Your Zaniac STEM Learning Experience, Field Trip or After-School Program, Contact Reed Bilbray:
Reed.Bilbray@ZaniacLearning.com


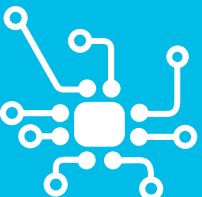
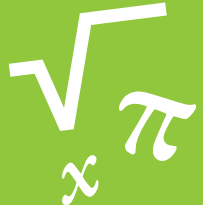
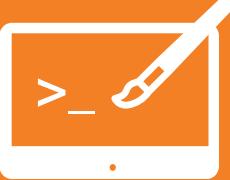




STEM Learning Experiences

Field Trips &

After-School Programs

For Schools (Grades 1-8)

 3D Printing	 Tinkering
 Zane Math	 Design
 Computer Programming	 Robotics

Zaniac STEM Learning Experiences For Schools (Grades 1–8)

Computer Programming

Scratch

Your students will learn to use Scratch to code their own interactive stories, animations and games.

Recommended Grade Level: 3-8

NC Essential Standards Alignment:*

5.C.1, 5.AE.1, 7.ML.1, TT.1 (all grades)

Python

Python students learn to work with this intuitive, syntax-based language.

Recommended Grade Level: 5-8

NC Essential Standards Alignment:*

7.ML.1, TT.1 (all grades)

App Creation

Students create their own app using App Inventor 2, a visual programming approach designed by MIT.

Recommended Grade Level: 5-8

NC Essential Standards Alignment:* *TT.1 (all grades)*

Web Design

Students create their own website, from concept to functional, hosted site.

Recommended Grade Level: 5-8

NC Essential Standards Alignment:* *TT.1 (all grades)*

*Extensions available for all programs to address other standards covering all subjects and curricula.

Design

3D Printing

Students will be immersed in the engineering and design process, printing their own ideas.

Recommended Grade Level: 3-8

NC Essential Standards Alignment:* *TT.1 (all grades)*

Fashion Design

Explore color theory, create your own custom garment designs, design and 3D print fashion accessories.

Recommended Grade Level: 5-8

NC Essential Standards Alignment:* *TT.1 (all grades)*

Tinkering

Circuits

Using littleBits™, learn about basic inputs, outputs, analogs and electricity.

Recommended Grade Level: 1-8

NC Essential Standards Alignment:*

1.P.1, 4.P.3, 6.P.1-3, 7.P.2, TT.1 (all grades)

Microcontrollers

Learn programming logic, work with sensors to explore the science of light and sound, and build creatively with real circuit boards.

Recommended Grade Level: 5-8

NC Essential Standards Alignment:*

Information and Technology (all grades)

Game-Based Learning

GBL: Minecraft™: Physics

Explore Newton's Laws, mechanics, and thermo-dynamics and work with advanced concepts like fluid physics and electromagnetics, all in the Minecraft universe.

Recommended Grade Level: 5-8

NC Essential Standards Alignment:*

5.P.1, 6.P.1, 7.P.1-2, 8.P.2, TT.1 (all grades)

GBL: Minecraft™: Architectural Design

Students learn the basics of urban planning and building design. Explore real-world architectural landmarks, then design a cityscape using Minecraft™ and Tinkercad.

Recommended Grade Level: 5-8

NC Essential Standards Alignment:*

2.AE.1, 2.V.1, 6.C.1, TT.1 (all grades)

GBL: Minecraft™: Galaxy

Learn about Earth's oceans and undersea life, and explore space. Design and build rockets that travel to space in the Minecraft universe.

Recommended Grade Level: 5-8

NC Essential Standards Alignment:*

5.E.1, 6.E.1-2, TT.1 (all grades)

GBL: Minecraft™: Exploration

Students learn Cartesian coordinates and use them to navigate. Explore real science and engineering concepts like biomes and gravity.

Recommended Grade Level: 3-8

NC Essential Standards Alignment:*

5.L.2, 6.L.1-2, 6.E.2, TT.1 (all grades)

Robotics

Simple Machines

Students get an introduction to levers, inclined planes, pulleys, screws, and complete challenges through building motorized mechanisms in teams.

Recommended Grade Level: 2-8

NC Essential Standards Alignment:*

5.P.1, 7.P.1-2, TT.1 (all grades)

Robotics: Design & Build

Students learn the basics of robotics, the scientific method, forces, and design. They build and program robotic solutions.

Recommended Grade Level: 3-8

NC Essential Standards Alignment:*

7.P.1-2, TT.1 (all grades)

Environmental Science

Study concepts like renewables, recycling, energy conservation, and carbon footprints through building wind turbines, and generators, and conveyors.

Recommended Grade Level: 4-8

NC Essential Standards Alignment:*

4.L.1, 5.L.2, 6.L.2-3, 8.E.1, TT.1 (all grades)

To Schedule Your Zaniac STEM Learning Experience, Field Trip or After School Program,

Contact Reed Bilbray at

828.575.0355 or

Reed.Bilbray@ZaniacLearning.com

STEM Learning Experiences • Field Trips • After-School Programs • Alignment with Standards • Designed to Fit Your Schedule