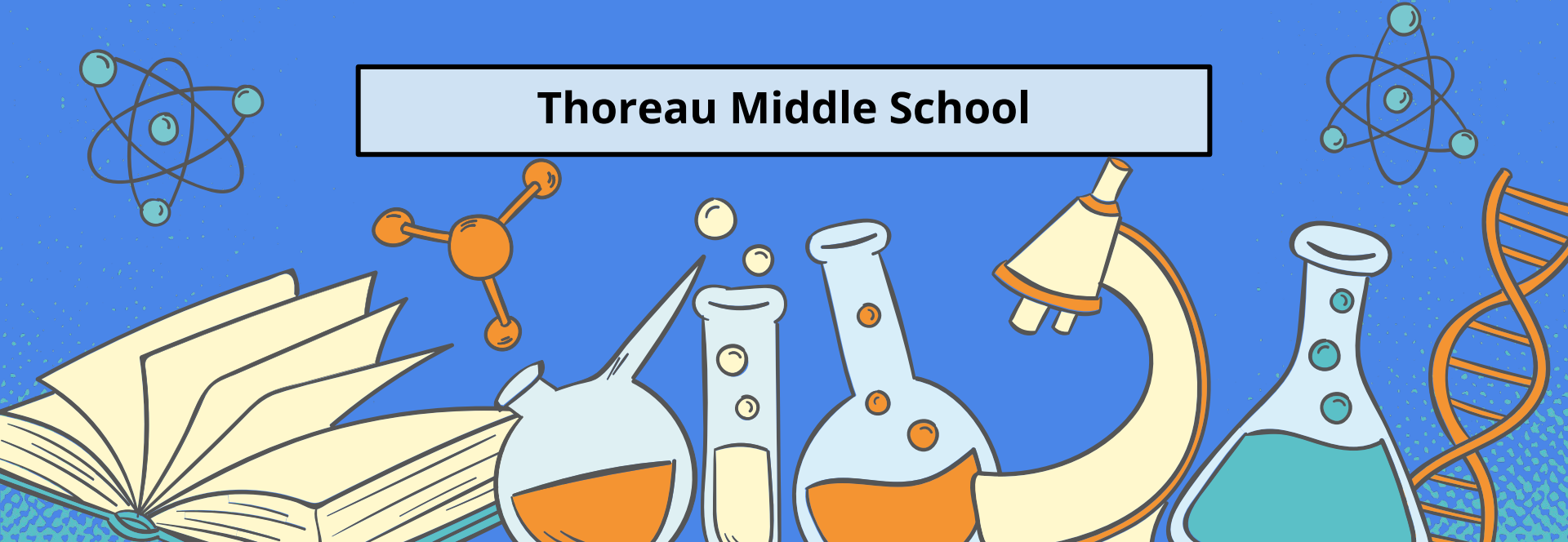


Science 7

Life Science

Thoreau Middle School



Our Mission!

Seventh-grade science teachers strive to create interactive and engaging lessons that spark students' curiosity and connect to their world. By integrating inquiry-based investigations, computer technologies, and interactive media, they aim to build a fun and interesting class that students are excited to share with others. Quarterly project-based learning activities and monthly SOL reviews of 6th and 7th-grade material help reinforce key concepts and prepare students for the Science SOL in 8th grade. Additionally, the curriculum supports the goals of the Portrait of a Graduate by fostering critical thinking, collaboration, and communication skills. Through these experiences, students engage in science and engineering practices, conduct investigations, analyze data, and formulate evidence-based conclusions, fostering deep and enduring knowledge about the world around them.

Units of Study

Life Science

Interactions in Ecosystems



Quarter 1

Quarter 2

Life Science

Cause and Effect Relationships in Ecosystems



Life Science

Matter and Energy in Living Systems



Quarter 3

Quarter 4

Life Science

Stability and Change in the Hereditary System

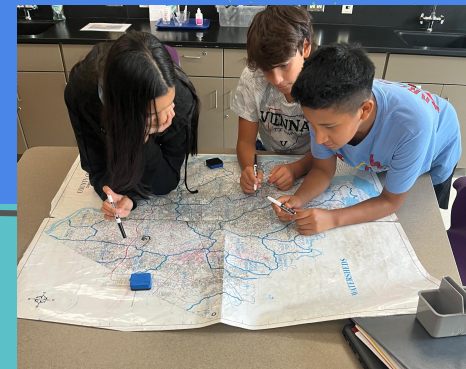


Portrait of a Graduate

Life science students in Fairfax County Public Schools (FCPS) develop Portrait of a Graduate (POG) skills through hands-on investigations and collaborative projects. They practice being critical and creative thinkers, solve real-world problems, and strengthen communication and collaboration skills while working with peers.

Students also grow as ethical and global citizens by exploring the societal and environmental impacts of human actions.

They build goal-directed and resilient learning habits by setting goals, overcoming challenges, and reflecting on their progress. By connecting science to real-world applications like biotechnology and conservation, they prepare for future academic and career success.



MWEE Field Trip

Our field trip will provide students a real-world, hands-on opportunity to investigate watershed ecology and the impact humans have on ecosystems.

Students work with staff and students from George Mason University to collect field data and evaluate the “health” of the ecosystem.

Students conduct water quality testing at the creek by measuring pH, dissolved oxygen, conductivity, temperature and nitrates.



Classroom Explorations

Water Testing!

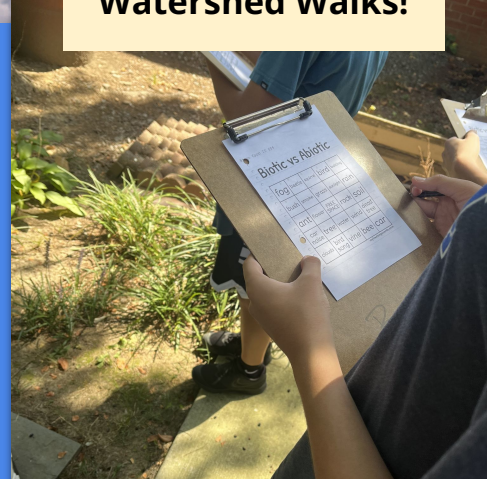


Candy Corn Lab!

Microscope Explorations!



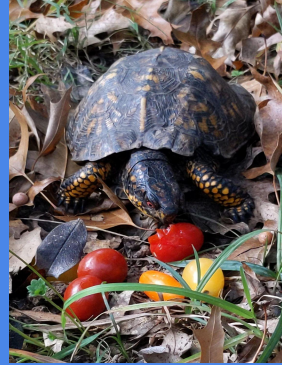
Watershed Walks!



Classroom Explorations



Outdoor Learning!



More Water Testing!

Developmental Dilemma Lab!

