



What is GEM?

The Growing Early Minds classes at the University of Wisconsin - Madison are designed to challenge and engage advanced learners in grades one through four. Students are exposed to advanced concepts that feed their curious minds. Each class is small and designed to enrich learning and introduce new areas of interest. Social and emotional curriculum components focus on fostering autonomy, encouraging development of growth mindset, and effective collaboration skills.



Attend GEM Family Day

December 2nd

On Saturday, December 2nd, WCATY will be hosting an event for both new and returning WCATY-GEM families. Do you have a hard time choosing just *one* GEM class? Experience activities from all of them in one area, before enrolling in a full GEM session this Winter and/or Summer.

Sign Up For Classes

Winter Session:
Five-Week Saturday Program
February 3rd - March 3rd, 2018
Class Time: 9:00- 11:30 am
Registration Opens: October 15, 2017
App Fee: \$30 Tuition: \$222*

Summer Session:
Five-Day Academic Program
July 23rd- 27th, 2018
Class Time: 9:00- 11:30 am
Registration Opens: January 3, 2018
App Fee: \$30 Tuition: \$222*
Afternoon Field-Trip Option: \$100/Week

*Financial Aid Available

More Info At:
wcaty.wisc.edu

When	Who
10:00-12:00 pm December 2nd	Students Grades 1-4 & Their Families
Where	Cost
UW-Madison	\$30 per family

- Schedule:**
- + 9:30 am- Registration
 - + 10:00 am- Welcome and Opening Remarks
 - + 10:15 am- "Open House" Style Class Activities
 - + 11:00 am- Break Out Session 1
 - + 11:30 am- Break Out Session 2

Registration Deadline: November 20

Register Online for the Family Day at:
<https://tinyurl.com/GEMFamilyDay2017>

Wisconsin Center for Academically Talented Youth

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Education Outreach and Partnerships
SCHOOL OF EDUCATION
UNIVERSITY OF WISCONSIN-MADISON



Pick A Class

SECRET AGENTS *Grade 1*

This multidisciplinary class, specifically designed for first grade students, will take the students on a journey from code breaking to fingerprinting to secret agent names and passports. They will use creative and critical thinking to make keen observations, use deductive reasoning skills, and write their own reports based upon evidence. If you geek out about invisible ink, learning about new places, and solving puzzles, this class is for you!

MATTER MATTERS: EXPLORING SCIENCE *Grades 2-3*

This class will spark your curiosity about the objects in the world around you. Did you know that everything is basically made of the same three ingredients? Do you know about the periodic table? With critical and creative thinking, you will participate in hands-on experiments, make observations, and learn how to communicate your findings like a scientist. If you geek out about the universe around you, love explosions, and find yourself asking "why?" all the time, this class is for you!

MAYOR MADNESS: CITY PLANNING *Grades 2-3*

This class will ask you to play multiple roles such as an engineer, architect, and designer to create your own city. While taking into account the different needs of your teachers, business owners, families, farmers, and city workers, you will need to create a community that is enjoyable and accessible for all people. Through creative and critical thinking you will have to balance budgets, layouts, and energy needs for your community. If you feel you have what it takes to build your own city, this class is for you!

SPEAK UP!: SPEAKING AND PRESENTING *Grades 2-4*

This class will help you develop your own powerful voice. Through both group and solo presenting, you will build self-confidence and strengthen your social interaction. Be your favorite book character and give an update on your life. Research an event in history and speak as if you were there in person. Convey a message without using words. Learn how to debate and speak confidently on the fly. If you geek out about interacting with people or just want to work on your public speaking skills, this class is for you!

INSIDE OUT, UPSIDE DOWN: PSYCHOLOGY *Grades 2-4*

This class will introduce students to the world of psychology using the movie "Inside Out" as a base for exploring emotions, actions, and memories. Students will be learning about the foundations of psychology through role play, hands-on activities, and class discussions. As a class, they will be creating a study of their own to further their own interests and observations. If you geek out about dreams, wonder why some of your emotions are so strong, or want to better understand how your brain works, this class is for you!

ARTFUL ARCHITECTURE: MATH AND ARCHITECTURE *Grades 2-4*

This class will combine elements such as drawing and mathematics to help students visualize and create their own dream buildings. Through hands-on and engaging activities, this class will go through the entire planning and designing process: site plan, floor plan, section, and elevation. There will be a focus on the different architecture styles and techniques, including local and regional styles. At the end of the course, the designs will be brought to life for all to see. If you geek out about cool looking buildings in your neighborhood or like looking at tall skyscrapers, this class is for you!

GET CHARGED: ELECTRICAL ENGINEERING *Grades 3-4*

This class will literally spark your curiosity about how the electronics around you work, the different types of circuits, and how you can create your own inventions with electricity. Through critical reasoning and creative problem solving, you will use the Little Bits Kits and other objects to build and test your own ideas to complete simple and complex tasks. If you geek out about building your own inventions, like to make things move, spin, and glow, or you like to take things apart to see how they work, this class is for you!

NOSE TO TOES: HUMAN ANATOMY *Grades 3-4*

This class will introduce students to the major systems of the human body through interactive and engaging activities. They will not only learn how the inner body looks, but how it works. Students will explore the muscular, skeletal, nervous, digestive, respiratory, and immune systems through building models and conducting experiments. If you geek out about broken bones, find eyeballs fascinating, or are curious about how your body fixes itself, this class is for you!

ADVENTURES IN CODING: EXPLORING MATH *Grades 3-4*

This class will spark your curiosity about the connections math has with computer coding and programming. Through critical reasoning and creative problem solving, you will learn how to boss around a computer using concepts like scripts, variables, and strings. If you geek out about video games, computers, equations, or even different mathematical languages, this class is for you!

****Class availability may be subject to change based on the level of enrollment in a particular class****

More info at: wcaty.wisc.edu