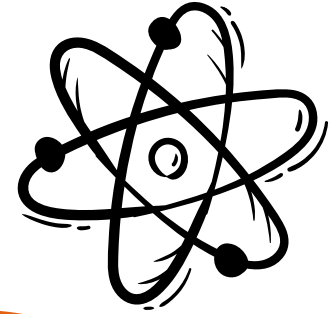# SACHEM CSD SATURDAY STEAM
ENRICHMENT GRADES K-5

GRADE K-1 STEAM INSPIRED BY NATURE

Session 1: Nature Creations & Storybook STEAM

Session 2: Silly Science Safari & Sensational Science

GRADE 2-3 BUILD & EXPLORE

Session 1: Makerspace Madness & Bridge Engineering

Session 2: Extreme STEAM & Retro Science

GRADES 4 & 5 DESIGN & CODE

Session 1: Video Game Design & Engineering Architecture

Session 2: Artificial Intelligence Coding & Amazing Aeronautics

Program Details

- FREE for Sachem CSD Students; Register for ONE Session ONLY
- 9:00 AM to 12:00PM Saturdays
- Register ASAP Space is Limited
- Registration at scopeonline.ce.eleyo.com
- Course descriptions on back.
- Located at Nokomis OR Hiawatha Schools
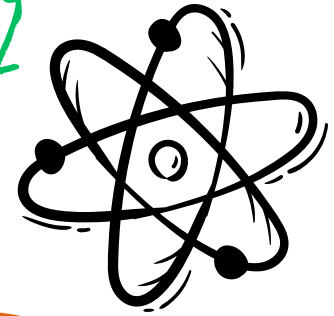- Info: bwestcott@scopeonline.us 631.881.9651

Register HERE:

Session Dates:
Session 1: Saturdays January 6, 13, 20, 27 Feb 3 & 10 2024
Session 2: March 2, 9, 16, 23, April 6 & 13 2024

SACHEM CSD SATURDAY
ENRICHMENT GRADES 6-12

GRADE 6-7
DIVE INTO SCIENCE

Session 1: Edible Science: Marine & Biology Life Sciences

Session 2: Sensational Science

GRADE 8-9
EXPRESS & EXCEL

Session 1: Podcasting & Movie Making

Session 2: Video Game & App Design Lab

GRADES 10-12
PREPARE & PROPEL

Session 1: SAT Prep Mathematics & Verbal

Session 2: College Prep Seminar: Application, Essay & Financial Literacy Class

Program Details

- FREE for Sachem CSD Students;
- Located at Sachem North HS
- 8:30 AM to 11:30 AM Saturdays
- Register ASAP Space is Limited
- Registration at scopeonline.ce.eleyo.com
- Course descriptions on back.
- All program details can be found online.
- Info: bwestcott@scopeonline.us 631.881.9651

Register HERE:

Session Dates:

Session 1: Saturdays January 6, 13, 20, 27, Feb 3 & 10 2024
Session 2: March 2, 9, 16, 23, April 6 & 13 2024

GRADES K-1 STEAM Inspired by Nature

Fall STEAM Creations Nature   Explore the beautiful autumn season while learning and creating fall masterpieces. Learn how trees breathe and how water moves through leaves. Let's be engineers as we design and build a model house, a stick raft, birdseed ornaments and a leaf person. Let's have some Fall fun!

Storybook STEAM   Your favorite storybooks come to life through our Storybook STEAM activities. Read, Plan and Design structures after listening to a storybook. We will be going on adventures through stories such as, "How I Became a Pirate", the "Three Little Pigs," "Rapunzel", "Horton Hatches the Egg'' and "The Most Magnificent Thing." You will work together to solve the character's problem by creating something to help. The characters give children a framework to explore how things work and the world beyond their home.

Silly Science Safari   Take a trip through the Silly Science Safari! In this engaging and hands-on course, elementary students will embark on a journey of discovery as they combine science and fun in the most delicious and wacky ways. There will be a variety of interactive activities and experiments such as creating edible play dough, edible layers of soil, making oobleck lemon volcanoes and magic milk. Students will deepen their understanding of basic scientific concepts, as well as develop a sense of wonder and curiosity about the world around them.

Sensational Spring Nature   Spring has sprung and it is time for STEAM learning fun! Let's learn and explore this wonderful season filled with new wonders. Students will use many items found in nature to design and create a milk carton birdhouse, an egg carton garden, four seasons tree cups and learn about biodiversity before building a mason jar terrarium. Are you ready to SPRING into action?

GRADES 2-3 Extreme STEAM & Science Exploration

Makerspace Madness Through hands-on tasks we need you to bring your creative minds to invent, create, and problem solve. Create a marble run, marshmallow launcher and catapult and compete in a Rocket Balloon Challenge! Are you up for the challenge?

Bridge Engineering and Build Competition Let the build competition begin! This hands-on class will include activities that incorporate aspects of science, technology, engineering, art and math (STEAM). Students will engage in challenges of building bridges and structures during a build competition. Are you up for the challenge?

Extreme STEAM Do you love to create new designs or to solve challenging problems? If so, join us as we explore the world using interactive experiments that will be sure to spark your imagination. Work independently and with teams and let your curiosity and creativity soar, as we invent and create using problem solving strategies. This hands -on class will include activities such as building bridges, catapults, straw rockets and Play-Do Mazes. Are you up for the challenge?

Retro Science   Science is exploratory and exciting! It's about the "Aha!" moments in life, like when you figure out how something works or when you're amazed by the result of an awesome experiment. Activities may include crystal creations, making a glitter globe, chemical changes and making polymers. You will have the opportunity to learn about science through our interactive hands-on science activities that will be sure to spark your imagination!

GRADES 4-5 Coding & Engineering

Video Game Design   Students design their first app while learning both fundamental programming concepts and collaborative software development processes. Students will use our Sprite lab to create video game characters, challenges, and designs. They will also create simple programming challenges their characters need to accomplish.

Engineering, Bridge Design & Strength Competition Work as engineers to design and build a popsicle stick bridge that can withstand 25 pounds! Students will use various materials to create the strongest bridges within a fixed budget. Kids will work both individually and cooperatively during the design process before putting their bridge to the ultimate strength test competition.

Artificial Intelligence Coding Artificial Intelligence Curriculum Students will learn how to manage a large set of data and program this data to help solve real world scenarios and problems. Join your friends as we learn about Artificial Intelligence, and how to program, design, and think creatively to get machines, computers and devices to help improve our society.

Amazing Aeronautics What are lift, thrust and drag? These are just a few of the concepts explored in this class that features hands-on engineering of flight. Kids will gain insight into the scientific principles of flight during construction of planes and rocket launchers.

GRADES 6-7 Dive Into Science

Edible Science: Biology & Marine Life
If you love science and food, come join our journey as we learn about science by completing hands-on, interactive and completely edible science experiments. Each lesson will feature a core lesson in science/STEM and have an activity to create this science concept entirely with food. Come join us and learn about Science and then eat what you learned! We promise this will be the most delicious science class you'll ever take. Students will specifically have lessons involving biology and marine life for this semester.

Sensational Science
During each club, our scientists will explore the world of science. They will perform hands-on activities on the topics of chemistry, physics, life science, earth science, and problem-solving. Best of all, not only will they leave with the knowledge of science, but they will be able to bring home some creations and have an absolute BLAST!

GRADES 8-9 Express and Excel

Podcasting & Movie Making:
Students will use digital technology devices and apps to create short movies and longer productions in digital film production and editing. Students will learn techniques for digital photography and editing. They will work towards creating a digital portfolio of their art work and films. Students will also create podcasts on inquiry based projects of their own choice!

Video Game Design & APP Lab
Students design their first app while learning both fundamental programming concepts and collaborative software development processes. Students will use our Sprite lab to create video game characters, challenges, and designs. They will also create simple programming challenges their characters need to accomplish. Students will also learn techniques to create and code their own video games using HTML coding.

GRADES 10-12 Prepare and Propel

SAT PREP COURSE
This course concentrates on SAT reading, vocabulary and writing skills along with math practice. Students will take practice exams and learn strategies to answer the different types of questions.

JUMP START THE COLLEGE APPLICATION PROCESS & Financial Literacy
At the end of this week long course, students will have a greater understanding of how college's review applications. The resume/activity sheet will be discussed and students. The Common Application, along with the supplement sections will also be scrutinized. Students will also learn the basics of paying for post-secondary education, managing their money, and applying for jobs after high-school.

COLLEGE ESSAY WRITING
Learn how to write your personal college admissions essay. Improve your chances of being admitted to college by writing a successful essay. A well thought out essay shows the admissions committee who you are-more than just grades and test scores.