

Gibbs' 15th Annual STEAM Conference

Science, Technology, Engineering, Art & Mathematics

February 23, 2024 6:00-8:00pm

STEAM Program Itinerary

Planetarium:

Our Planetarium shows will only be for the 4 and 5th grade students and their families. All students were able to view the show during their PE class this week. **A sign up genius link was sent to the 4th and 5th grade students via Remind.**

Please arrive at least 10 minutes prior to your designated showtime to ensure a seat. We will be entering through the far door of the Gym near the Art room. We will be checking off names from the Sign-up Genius list. There will be a copy of the Sign-up posted by the office and the door of the gym near the playground.

We will have shows starting at 6:30pm and running for 15 minutes each.

Pizza and Bake Sale: Enjoy pizza and delicious snacks from our food stand. All profits from our fundraiser will go toward supporting our Gibbs' STEAM and Sustainability Programs.

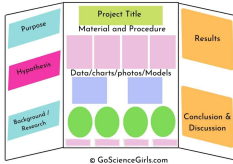
Reusable Water Bottles: Don't forget to bring your own reusable water bottles to our STEAM Conference. Filling stations are located around our school for your convenience. We will not be selling single-use plastic water bottles at our STEAM Conference.


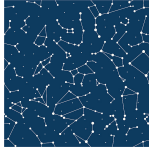


Wheat Straw Utensils Fundraiser: Check out our reusable, easy-to-clean wheat straw utensils that are on sale.





They are environmentally friendly, biodegradable, non-allergenic, non-toxic, 100% BPA Free, microwaveable, freezer-safe & gluten free. Each set is \$3 each or \$2.50 when two or more sets are purchased.

Waiver: All conference participants consent to Gibbs ES use of any photographs taken or videos made at the STEAM Inquiry Conference for use in our school's publication, presentations, and/or website.






| Room # | Session Length | Session Time(s) | Breakout Sessions <i>(Page 1)</i> | Facilitator(s) |
|--|----------------|------------------------|--|---|
| Cafeteria & Media Center | 30 min | 6:00-6:30 | <p style="text-align: center;">Student Projects Earn Gator Points!</p> <p>Come and listen to what your fellow Gators have been researching, testing and creating! Provide feedback to your peers and earn Gator Points for your classroom!</p>  | Gibbs' Staff Gibbs Students |
| Media Center | 25 min | 7:00-7:25 7:40-8:05 | <p style="text-align: center;"><u>NanoFlick: From School Project to Silicon Valley Startup</u></p> <p>Meet the team that created this ground-breaking video-making app and learn how every letter of STEAM goes into making it real. We'll also have a demonstration of how students, teachers, administrators & parents can use the free app to make their own everyday videos for book reports, school projects, lesson previews, assemblies and more.</p> | Jack & Bill Youstra |
| Room #168 Navigator Rm 1st Grade Hallway | Ongoing | 6:30-8:00 | <p style="text-align: center;"><u>Sustainability: Rethinking Our Consumption</u> <i>Rethink/Refuse/Reduce/Reuse/Repurpose/Rehome/Refurbish/Return/Recycle</i></p> <p>Explore the many ways individuals are making their homes, work spaces, and family/friend gatherings more sustainable. Save money and resources when you strive for a "Circular Economy" way of thinking- It's a Win-Win for all of us. Come enjoy unleashing your creativity and ingenuity with our family sustainability challenges.</p> | Gibbs' Staff 4th Grade Team Sustainability Club Sustainability PLC |
| Gymnasium 187 | 20 min | 6:30-8:00 | <p style="text-align: center;"><u>Gibbs Planetarium (Astronomy)</u> (Only for Students in Grades 4-5)</p> <p>Join us under the Star Lab Planetarium for a guided tour of the night sky. Students will learn about phases, eclipses, the Moon's motion through the heavens, and features on the Moon's surface. They will be able to examine and distinguish between such surface features as craters and mountains.</p> <p>Tickets must be reserved in advance using our Sign Up Genius system. If you have had the opportunity to attend this session in past years, please consider attending a different breakout session in order to give other families a chance to experience this presentation.</p> <p><u>All other students were able to view the show during their PE class this week.</u></p> | Gibbs' Staff Planetarium PLC |

| Room # | Session Length | Session Time(s) | Breakout Sessions <i>(Page 2)</i> | Facilitator(s) |
|--------------------------------------|----------------|-----------------|--|---------------------------------|
| Gymnasium 187 | Ongoing | 6:30-8:00 | <p align="center"><u>Asteroid Deflection</u> (Recommended for Students in Grades 3-5)</p> <p>Students will design and construct a straw rocket that is able to accurately impact an asteroid that is on a collision course with earth. The students will use their geometry skills to identify the correct angle that will ensure the asteroid is deflected away from earth. The students that are able to deflect the asteroid and save Earth from destruction will become Earth's Saviors.</p> | Gibbs' Staff 5th Grade Team |
| Gymnasium 187 | Ongoing | 6:30-8:00 | <p align="center"><u>Solar System Headbands</u> (Recommended for Students in Grades PreK-3)</p> <p>Students will be provided cut-outs of all of the celestial bodies in our Solar System and a strip of black construction paper. They will use these cutouts to create a headband replica of the solar system.</p>  | Gibbs' Staff Planetarium PLC |
| Gymnasium 187 | Ongoing | 6:30-8:00 | <p align="center"><u>Constellation Viewer/Projector</u> (Recommended for All Students)</p> <p>Students will construct a constellation viewer using recyclable materials. This can be looked through or a flashlight can be held up to it to project the constellation onto a wall.</p>  | Gibbs' Staff Planetarium PLC |
| Room #121 <i>PEP/PreK Hallway</i> | Ongoing | 6:30-8:00 | <p align="center"><u>Build a Hoop Glider (Part 1)</u> (Recommended for Students in Grades PreK-2)</p> <p>Be a Hoop Glider Pilot! Create a Hoop Glider with straws and paper. It may look odd, but it will fly surprisingly well! The hoops of different sizes keep the straw balanced when it flies through the air. Come build a glider in room 121 and then take it to room 134 to test how far it will fly!</p>  | Gibbs' Staff PEP/PreK Team |
| Room #134 <i>PEP/PreK Hallway</i> | Ongoing | 6:30-8:00 | <p align="center"><u>Fly Your Hoop Glider (Part 2)</u> (Recommended for Students in Grades PreK-2)</p> <p>Start in Room 121 to build a Hoop Glider. Then bring your hoop glider to room 134 see how far it will fly! Try experimenting with different flight distances by creating different sized hoops or with the hoops placed in different places on the straw.</p> | Gibbs' Staff PEP/PreK Team |
| Room #140 <i>PEP/PreK Hallway</i> | Ongoing | 6:30-8:00 | <p align="center"><u>Bridge Building</u> (Recommended for Students in Grades PreK-2)</p> <p>The animals want to cross the river without getting wet. They need your help! Build a bridge to cross the river and see if it is strong enough to balance the animal without it falling in the water!</p>  | Gibbs' Staff PEP/PreK Team |

| Room # | Session Length | Session Time(s) | Breakout Sessions <i>(Page 3)</i> | Facilitator(s) |
|---|----------------|------------------|---|---|
| Room #154 <i>Kindergarten Hallway</i> | Ongoing | 6:30-8:00 | <p align="center"><u>Echoes of Nature- Animals of Harry Potter</u></p> <p>Come see live animals from your favorite Harry Potter books! Meet an owl, snake, frog, bearded dragon and tarantula! Can you recognize where they are from in the books?</p>  | Echoes of Nature STEAM PLC |
| Room #158 <i>Kindergarten Hallway</i> | Ongoing | 6:30-8:00 | <p align="center"><u>Coding My Bee-Bot (Part 1)</u> (Recommended for Students in Grades K-2)</p> <p>Bee-Bot needs to make her way home! Can you help write a code to move her around different obstacles to safely make it home? In this room you will work on writing your code. Head next door to test it out!</p>  | Gibbs' Staff Grade K |
| Room #160 <i>Kindergarten Hallway</i> | Ongoing | 6:30-8:00 | <p align="center"><u>Coding My Bee-Bot (Part 2)</u> (Recommended for Students in Grades K-2)</p> <p>Bee-Bot needs to make her way home! Can you help write a code to move her around different obstacles to safely make it home? In this room, enter your code into Bee-Bot and watch her move! Did your code work? Do you need to make any adjustments?</p>  | Gibbs' Staff Grade K |
| Room #180 <i>1st grade hallway</i> | Ongoing | 7:15-8:00 | <p align="center"><u>All About STEAM Careers</u></p> <p>Come and hear about some amazing careers in different STEAM fields. Parents from our community are ready to share all about their jobs.</p> | Gibbs' Parent Volunteers |
| Rooms #190 & #188 <i>Dual Purpose Room Arts Hallway</i> | Ongoing | 6:30-8:00 | <p align="center"><u>Instrument Petting Zoo</u> (Recommended for Students in Grades 2-5)</p> <p>Enjoy an instrument petting zoo and some short instrumental performances sponsored by Seneca Valley High School's Tri-M Music Honors Society.</p> | Gibbs' Staff Arts Team Seneca Valley High School Students |
| Room #172 <i>MakerSpace Rm 1st Grade Hallway</i> | Ongoing | 6:30-8:00 | <p align="center"><u>Animal Adaptations</u></p> <p>Explore how animals physically and behaviourally adapt to their environment to survive and thrive. Why is a hummingbird's beak different from a pelican's? How does a frog use its tongue to grab prey? How do dolphins and penguins cooperate to ensure the safety of the group? How do polar bears stay warm?</p>  | Gibbs' Staff Grade 3 |

Breakout Sessions *(Page 4)*

| Room # | Session Length | Session Time(s) | | Facilitator(s) |
|---------------------------------------|----------------|--|---|--|
| Room #139 1st Grade Hallway | Ongoing | 6:30-8:00 | <u>Mining For Chocolate</u> Non-renewable resources are mined from the Earth to meet the wants and needs of humans and as a result there are often damaging impacts to the land, water, animal habitat and other natural attributes. In this simulation, individuals will “mine” for chocolate chips using toothpicks, being mindful of the impacts to the environment while doing so. | Gibbs’ Staff Grade 2 |
| Room #178 1st Grade Hallway | Ongoing | 6:30-8:00 | <u>Marble Mazes</u> Come build your own marble maze! Use a variety of materials to construct walls, tunnels, and pathways that will guide your mable through the maze. Then explore different types of balls that you could go through your maze to determine which material navigates through your maze the best or fastest. | Gibbs’ Staff Grade 1 |
| Room #192 Art Room | 45 min | 6:30-7:15 7:20-8:05 | <u>Ships Ahoy!</u> Embark on an adventure and see if you can save your marshmallow family! Use your imagination and design a boat that keeps your family safe. But there is a twist! Come see if you can solve this challenge. | Gibbs’ Parent Hao-Lan Chai |
| Room #125 PEP/PreK Hallway | 30 min | 6:30-7:00 7:10-7:40 | <u>Creative Photography Techniques in Action</u> Learn how to create cool visual effects like light painting and bokeh by unleashing the full potential of a professional camera. Photography meets art and technology, so you’ll get to experience the best of both worlds. Ksenia Proskov is an established portrait & fashion photographer, speaker and educator. Website www.kseniapro.com Instagram @ksenisphoto | Gibbs’ Parent Ksenia Proskov |
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| Room # | Session Length | Session Time(s) | Breakout Sessions (Page 5) | Facilitator(s) |
|--|----------------|------------------|---|----------------------------------|
| Room #174 1st Grade Hallway | Ongoing | 6:30-8:00 | <p align="center"><u>Science Guys: Catapults</u></p> <p>Come build your own catapult to throw everyday items. You will get a chance to try out our MEGA CATAPULT!</p>  | Science Guys STEAM PLC |
| Room #164 Kindergarten Hallway | Ongoing | 6:30-8:00 | <p align="center"><u>Science Guys: Chemical Clock</u></p> <p>Come create an hourglass using a chemical reaction. Get ready to be AMAZED!</p>  | Science Guys STEAM PLC |
| Room #135 1st Grade Hallway | Ongoing | 6:30-8:00 | <p align="center"><u>Science Guys: Science of Art Optical Illusions & Hair Raising Electricity</u></p> <p>Come decipher hidden images and solve visual riddles. Come make your hair stand up and turn yourself into a human circuit using a Van de Graff generator.</p>  | Science Guys STEAM PLC |

Give Us Your Feedback! (Please complete the evaluation below and place this page in the designated box located in our main hallway.)

What Is Working and Should Be Continued...

Suggestions for Upgrades...