Prospective Student Open House

Accepting students going into grades 6-10.
Agenda for the Evening

• **5:00-5:20** Introduction

• **5:20-6:30** Middle School and High School Breakout Sessions

• **6:30-6:45** Optional Programs for Students with Exceptionalities (PSE) and Student Services Drop-In
History of SciTech

• STEM Magnet School
• Opened in 2009 with grades 6-9
  • One grade added per year, August 2012 reached full capacity
• Collaborative effort – CMU/Pitt/PPS/Local Partners/US Steel
Mission and Vision of SciTech

• The mission of Pittsburgh Science and Technology Academy is to provide daily opportunities for students to...

Dream, Discover and Design

• We believe that all students can succeed in advanced STEM coursework with the right amount of time and support
What Makes SciTech Unique?

School Design (examples)
• Innovative scheduling
• Unique 4th period
• Post-secondary planning and support
• Technology integration
• Staff professional development
• School facility and location
• Flexible graduation timelines and unique honors diploma

Focus on STEM education
STEM Focused Concentrations
Grades 10-11

- Series of 8 courses unique to SciTech
- Students are introduced to skills and ideas that are usually reserved for college.

SciTech Concentrations

- Life Sciences (Body & Behavior)
- Computer Science (Computers & Connections)
- Environmental Science (Environment & Energy)
- Engineering (Form & Function)
Executive Experience Grade 12
Collaborative, Field-Based Project with a Partner in Academia or Industry

**ACADEMIC**
- Research
- Writing
- Presentation
- Specific Content
- Problem Solving

**PROFESSIONAL**
- Communication
- Collaboration
- Commitment
- Responsibility
- Time Management
### Weekly Schedule

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Clubs, Activities, Sports

- Gender and Sexuality Alliance (GSA)
- Black Student Union (BSU)
- Feminist Student Union (FSU)
- Bots IQ
- Interact Club
- Mock Trial
- Sports- anything at Obama
- Activity Period: Guitar Club, Cooking Club, Games Club, Movie Club, etc.
Transportation

- Grades 6-8
  - Yellow Buses
- Grades 9-12
  - PAT Buses
Who Should Attend SciTech?

Anyone that is interested in science and technology may apply to SciTech.

The program is designed to serve motivated students with interest in science or technology, no matter their current academic level.
What’s Next?

In the chat is a document with the links for the breakout sessions.

- **High School** - Stay here.
- **Middle School** - Open the document in the chat and select the second link.
- **PSE/Student Services Q&A Drop In** - This will **begin at 6:30** and the link is in the document that is in the chat.
Science @ SciTech - Required Science Courses and Electives, Concentrations, and Executive Experience

Brian Rose (9th grade Biology) and Edwina Kinchington (Body and Behavior Concentration & Executive Experience)
Science - Required Courses and Electives

- **9th Grade:**
  - Chemistry (Semester)
  - Biology (Semester)

- **10th Grade:**
  - Concentration
  - Electives

- **11th Grade:**
  - Concentration
  - Electives
  - Conceptual Physics (if not in F&F)

- **12th Grade:**
  - Electives
  - Executive Experience

- **Electives:**
  - Forensics
  - Genetics
  - Human Pathology
  - Arduino for ALL
  - Game Design
  - Intro to Java
  - Ecological Anthropology
  - Introduction to Environmental Science
  - Paleontology
  - AP Physics (1 and 2C Mechanics)
  - CHS Biology
  - CHS Chemistry

Logon to www.PittsburghSciTech.com then “Academics” for a description of each course.
# Concentrations & Executive Experience

## Body and Behavior
- Biomedical technology related to studying your genome, Microbiology, Infectious disease and immunity
- Cellular signaling, AP Biology, Advanced life sciences

## Environment and Energy
- How the environment works.
- How the environment affects humans.
- How humans affect the environment.
- How we can fix these complex issues.

## Form and Function
- Introduction to Engineering - The problem solving process, drafting and CADD
- Applied Engineering Physics I - 1D and 2D motion, Forces and Work, Circular Motion
- Applied Engineering Physics II - Fluids, Thermodynamics, Waves
- Digital Electronics - Circuits and Components, Breadboarding and Soldering, Logic Circuits

## Computers and Connections
- Programming for web design, apps, principles of computer, hardware and software
- Programming – JAVA, python, AP Computer Science

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**Executive Experience:** Senior research project on topic of student interest with a community mentor and partner: semester long
Electives & World Languages

HIGH SCHOOL
There are two music electives in the High School:

- **Music Production and Engineering**
- **Music Composition and Arranging**

Classes use technology and software including Garage Band, Logic Pro, Ableton Live, and FL Studio to explore their musical creativity.

The Music Lab features Mac computers and a recording studio.
In Mr. Gouker’s High School Art electives, students have the choice to make art and express themselves in a few different ways. In the Art Tech class, students use 2D visual communication to dive into inspiration, reflection and action. In the Art Through Science course, students use the camera – both photography and videography to create beautiful compositions and interesting and educational videos. Also, every other year, Mr. Gouker offers a 2D AP Art class.
Mr. Shevitz

**Teaches:** Physical Education/Health

**Hobby:** Spending time at home with all his girls.

**Interesting Fact:** Likes to go to the theatre.
Mr. Lingg

**Teaches:** Personal Fitness and Health

**Interesting Fact:** I was the middle school swim coach for Sci-Tech’s first ever middle school swim championship team.

**Hobbies:** Love all outdoor activities and traveling.
Electives - Mr. Bland

MS Electives:
- Career Prep – Keyboarding and Word Processing
- Launching Innovation – Business and Computer Science

HS Electives:
- Game Design – Java Programming
- Economics

Hobbies: Football, Hockey, MTG, and GamesWorkshop
Electives- Mrs. Theuret

- Post- Secondary Prep 1 and 2
  - All 11th and 12th Grade Students
  - Focused exploration and planning for the post-secondary future.

- Career Tech
  - All 9th Grade Students
  - Career Exploration and Preparation
  - Microsoft Office Applications

- Accounting Technology
  - Accounting in the real world.
  - Use of MS Excel applications as it relates to preparing financial documents and analyzing data.
World Languages @ SciTech

A Guide to the World Languages Program at the Pittsburgh Science & Technology Academy
Meet the Teachers

Sra. Dalessandri
Spanish 1, 2, 3 and 4

Sr. Robertson
Spanish 1 and 2

Sr. Húber
Spanish 1, 2, 3 and 5
Portuguese 1

Not-So-Fun Fact:
Last summer was the first time in over 20 years that a teacher from this department did not travel abroad.
☐ The primary emphasis in Spanish and Portuguese is for our students to develop listening and speaking skills in a communicative context.

☐ Interpersonal communication is a daily practice in these classes.
- All Grade 10 students must take:
  - Spanish 1 PSP during Semester 1
  - Spanish 2 PSP during Semester 2
- Grade 11 students may take the following electives:
  - Spanish 3 PSP and Spanish 4 PSP during Semesters 1 and 2, respectively.
- Grade 12 students may take Spanish 5 CHS for college credit or Portuguese 1 as an elective.
Activity and Advisory at SciTech

Student Presenters: Lauren, Amira and China
Advisory

- Time Slot: 10:05-10:45
- Purpose:
  - to provide an opportunity for:
    - Students to review grades
    - Have a teacher to go to when in need
    - Place and People to talk to
    - Time can also be use to do any missing work
    - If you ever need anything you can talk to advisory about it

Remember: Advisory is MANDATORY
Activity

- Time Slot: 10:26 - 11:21am
- Purpose: To provide an opportunity for...
  - Students to get to know each other
  - Participation in clubs or social groups
  - Provide opportunity to participate in activities usually offered after school
- Time can also be repurposed for support
| Activity -- What Social Justice Groups Can I Join? |
|---------------------------------|---------------------------------|---------------------------------|
| **Black Student Union**         | **Superintendent’s Student Advisory Council** | **Gender Sexuality Alliance**   |
| Purpose: to tackle and bring awareness to both school and community-based issues surrounding the black community. | Purpose: to bring awareness to in-school issues surrounding equity and school lunch in addition to a few others. | Purpose: to tackle and bring awareness to both school and community-based issues surrounding LGBTQ+ community. |
Activity -- What If I Don’t Want to Participate in a Social Justice Group?

There are additional clubs including:

- SciTech Student Ambassadors
- Yearbook
- Board Game Club
- Garden Club
- Interact Club
- Math League
- etc.
SciTech Experience

- Challenging coursework, opportunities, and conversations **WITH** the support necessary to thrive.
- The ability and **encouragement** to start your own clubs, organizations, and projects.
- A **supportive** student community with strong network connections for internships, research, and community service.
- **Caring** and **dedicated** teachers who do the most to support and prepare all SciTech students for success!
Mr. D’Amico
Math 6/7 Pre-Algebra
Geometry

Mrs. Perris
Math 7/8 Combo
6th Grade Intervention

Mrs. Nienhuis
Math 8
Algebra 1
Mrs. Hoffman
Precalculus
Algebra 2

Mrs. Skoda
AP Calculus

Mrs. Obritz
AP Statistics
Probability & Statistics
Matrix & Linear Algebra
Algebra 2
Biostatistics
Quantitative Ecology
Mrs. Keesecker  
Algebra 1  
Geometry

Mrs. Lazzaro  
Algebra 1  
Geometry

Mrs. Reiser  
Algebra 2  
Geometry

Mrs. Theuret  
Accounting Technology
Mr. Bajcz
Financial Algebra

Mr. Ronevich
Co-teaches
Biostatistics and
Quantitative Ecology

Mr. Sparacino
Co-teaches
Algebra 1
# H.S. Math Progression @ SciTech

<table>
<thead>
<tr>
<th>Grade 8</th>
<th>Grades 9 – 12 (Mandatory)</th>
<th>Grades 9 -12 Math Electives</th>
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<tbody>
<tr>
<td>Algebra 1</td>
<td>Algebra 1 (required)</td>
<td>Financial Algebra</td>
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<tr>
<td>8th Grade Math</td>
<td>Geometry (required)</td>
<td>Statistics (non AP)</td>
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<tr>
<td></td>
<td>Algebra 2 (required)</td>
<td>PreCalculus</td>
</tr>
</tbody>
</table>

- Algebra 1
- Geometry (required)
- Algebra 2 (required)
- Financial Algebra
- Statistics (non AP)
- PreCalculus
- AP Calculus
- AP Statistics
- BioStats and Quantitative Ecology
- Matrix & Linear Algebra
SciTech Math at a Glance

• 2019/2020 AP Scores
  – 87 out of 169 AP tests (all contents) were passed with a score of 3, 4, or 5
    • 13 students took the AP Statistics Exam
      – 46% pass rate
    • 50 students took the AP Calculus AB
      – 64% pass rate

• Extra Curricular Activities
  – Math League (Virtual)
Math Support

• Provided during the Last 30 Minutes of Virtual Class (after the Live Portion)
  – Monday/Tuesday & Thursday/Friday

• Available resources
  – Tutoring
  – Homework support
  – Study Island
  – Edmentum
  – ALEKS
  – Khan Academy
Humanities:

English & Social Studies
<table>
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<th>ENGLISH</th>
<th>SOCIAL STUDIES</th>
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<tbody>
<tr>
<td>Ms. Barbas</td>
<td>Ms. Kupec</td>
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<tr>
<td>Mrs. Marshall</td>
<td>Ms. Miller</td>
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<tr>
<td>Mrs. Reynolds</td>
<td>Mrs. Moore</td>
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<td>Ms. Simpson</td>
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Humanities at SciTech

- All core classes are one semester and meet daily for two quarters.
- Mock Trial is offered as an activity.
Core English Classes

- English 1: 9th grade
- English 2: 10th grade
- Choice of English 3 or AP Language: 11th grade
- Choice of English 4, African-American Literature or AP Literature: 12th grade
  - Students choosing AP Literature may select to take African-American Literature as an elective the fall semester of the 12th grade year
9th Grade Quarter Length English Class

- All 9th grade students are enrolled in Creative Writing during their Fall semester

10 - 12th Grade Quarter Length Elective English Classes

- Debate, Film as Literature
Core Social Studies Classes

- Civics: 9th grade
- Choice of World History or CHS Western Civilization: 11th grade
- Choice of U.S. History, African-American History or AP U.S. History: 12th grade
  - Students choosing AP US History may select to take African-American Literature as an elective the spring semester of the 12th grade year
Q&A

• Any questions? We will take questions for 10 minutes.

• If we don’t get to your question feel free to email Stephanie Theuret at stheuret1@pghschools.org.

• REMINDER: If you would like to go to the drop-in session for questions about IEP’s, 504’s or other student services please use the link in the chat at 6:30pm.