Pathways Program
Middle School Presentation

Mrs. Gates
Pathways Coordinator

Pembroke High School

PATHWAYS PROGRAM

What is the Pathways Program?

- The goal of the Pathways Program is to help students gain the marketable skills to be college and career ready!

- The Pathways include:
  - Specific Coursework

  - Internships

  - Certifications *(ex.Adobe Photoshop,/Illustrator, Java, MS Office)*

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Program 2024- 2025

- Business & Entrepreneurship**
- Computer Science**
- Digital Arts
- Manufacturing & Engineering
- Biomedical
- Music
- Global Citizenship & Learning
- Information Technology**

Pathways Program - Reminders

- The Pathways Program is optional!

- You do NOT have to select a Pathway!

- You may enroll in a Pathway in 10th grade.

- All the electives classes we review today are open to ALL students! You do not have to be on a Pathway to enroll in one of these classes.

Business & Entrepreneurship

Mia Antonelli
Jack Eva

10th Grade
12th Grade

Taken the following courses:
- ❏ Accounting
- ❏ Intro Marketing
- ❏ Financial Literacy
- ❏ Exploring Business
- ❏ Honors Strategic Marketing
- ❏ Microsoft Applications

Pembroke DECA Members:
- ❏ State Qualifiers 2025
- ❏ Mia-5th Place
  - ❏ Food Marketing Services

- ❏ DECA Quiz Bowl

Business & Entrepreneurship Potential Careers

Entrepreneurship
- ❏ Business Owner
- ❏ Realtor

Business
- ❏ Project Management
- ❏ Analyst
- ❏ Communications

Marketing
- ❏ Sales
- ❏ Advertising
- ❏ Social Media

Finance
- ❏ Advisor
- ❏ Stock Broker
- ❏ Investor Analyst
- ❏ Human Resources
  - ❏ Recruiting
  - ❏ Benefits/Management
- ❏ Accounting
  - ❏ CPA
  - ❏ Auditor
  - ❏ Taxes

Business & Entrepreneurship

PACING GUIDE/COURSE OFFERINGS:

- ❏ Year 1: Exploring Business/Business Communication
- ❏ Year 2: Intro Accounting/Intro Marketing
- ❏ Year 3: Financial Literacy
- ❏ Year 4: Strategic Marketing/ Internship / Microsoft Certification

DECA BUSINESS CLUB (Optional):

- ❏ Compete at the district, state and national level
- ❏ Several business categories to choose from

PEMBR◆KE
DECA

What do we learn in **MARKETING?**

KEY PROJECTS:
- ❏ Digital Portfolios
- ❏ Business Pitches
- ❏ Infographics
- ❏ Surveys
- ❏ Brochures
- ❏ Marketing Plans
- ❏ Advertising Campaigns

KEY TOPICS:
- ❏ Design Thinking Concepts
- ❏ Marketing Careers
- ❏ Product Development
- ❏ Market Research
- ❏ Marketing Mix
- ❏ Functions of Marketing

How has **MARKETING** helped me connect to Real World Skills?

KEY SKILLS:
- ❏ Project Management
- ❏ Tech and Media Tools
- ❏ Design Element
- ❏ Presenting
- ❏ Collaboration
- ❏ Prepare for DECA
- ❏ SMART Goals

Business Portfolio

Mia Antonelli

What do we learn in **FINANCE?**

Accounting

- ❏ Finances of Companies
- ❏ Language of Business
- ❏ Financial Statements
- ❏ Real World Scandals
- ❏ Finance vs. Managerial
- ❏ Forensic Accounting
- ❏ Accounting Careers

Financial Literacy

- ❏ Personal Finances
- ❏ Money Management
- ❏ Budgeting
- ❏ Career Aspirations
- ❏ Finance Goals
- ❏ Getting a Loan
- ❏ Investing

How has **FINANCE** helped me connect to Real World Skills?

KEY SKILLS:
- ❏ Prepare for College
- ❏ Manage Personal Money
- ❏ Budgeting for my future
- ❏ See how companies operate
- ❏ Finance Careers
- ❏ DECA role plays

Business Pathway - Overall Reflections

MIA & Jack :
- ❏ Your WHY for Business?
- ❏ Biggest Challenge Yet?
- ❏ Favorite thing about the Business Pathway so far?

- ❏ Thank you!
- ❏ Feel free to reach out with questions about Pembroke Biz!

Computer Science Pathway

Jason DiBella- Junior
Coby Draves- Senior

Computer Science Classes

- Year 1: Exp. CS Programming/Exp. CS Robotics
- Year 2: AP Computer Science Principles
- Year 3: AP Computer Science A
- Year 4: Internship/Java/Cyber Security Certification

Additional Offerings: Advanced Robotics /Cyber Security

Computer Science Potential Careers

App Developer   Computer Programmer
Cybersecurity Specialist   Database Administrator
Hardware Engineer   IT Architect
Network Administrator   Software Developer Software
Engineer   Systems Analyst
Systems Manager   Web Developer
Video Game Developer

What do we Learn in Robotics?

- Design, build, and program your own robot.
- Robot moves pieces around on a game board to score points
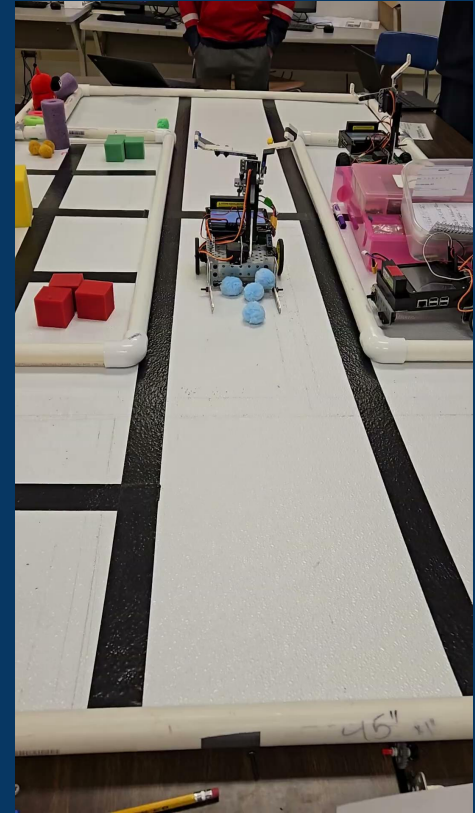
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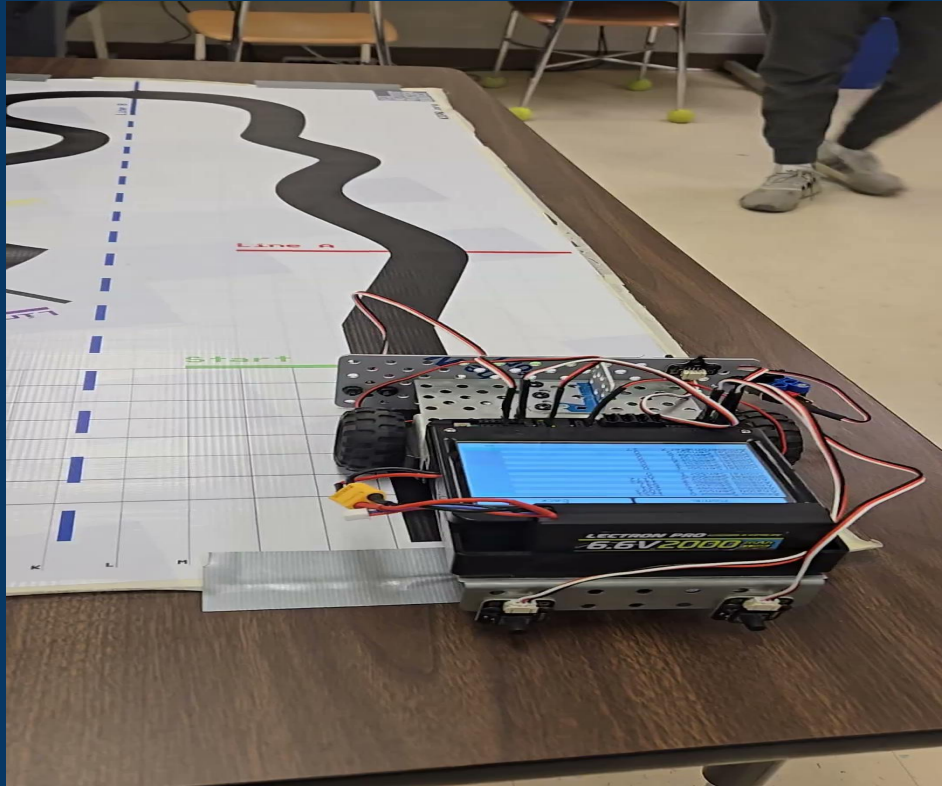
Robotics - Key Projects

- Microbits- make a robot that plays Rock, Paper Scissors!
- Wombat microcontroller-
  - Class
 - Club
    - Compete regionally/globally

What do we Learn in Mobile App Development

- Bring **your ideas** to life through your own Mobile App.
- What idea do you have for an invention or activism to help your community?
- You will design and **build your own mobile app** that you can keep right on your phone and share with others.

Mobile App Development -Key Projects

- Coby Draves was recognized as a winner in the Congressional App Challenge for his community app on helping to fix potholes.

- Jason Dibella submitted his community app about preventing drug use in teenagers to Congressional App Challenge and CREATE College Board Digital Portfolio.
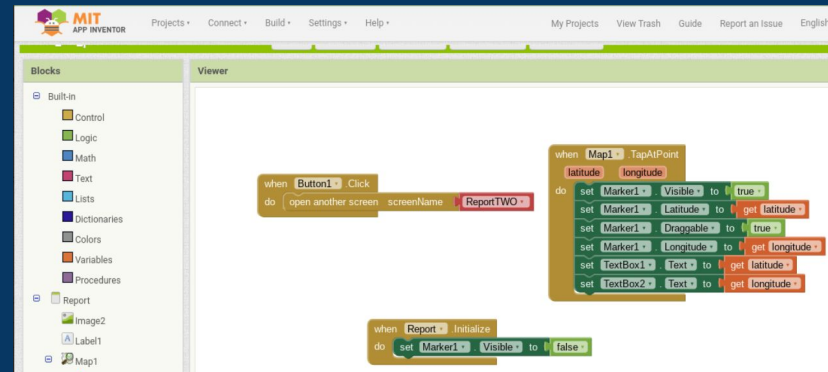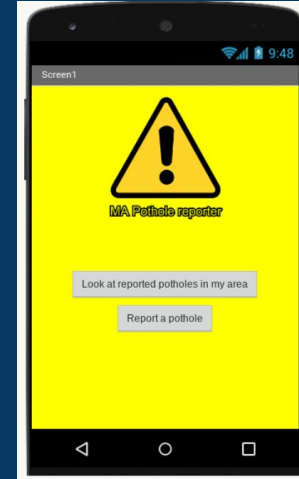
Computer Science Classes - Student Perspective

- What is great about Computer Science Classes?

- Why did you enroll in the

    Computer Science Pathways?

Informational Technology Pathways

Ms. Leeper

Informational Technology Potential Careers

Computer Support Specialist
Help Desk Technician
Network Systems Admin.

Computer User Support
Computer Network Support,
Info. Security Analyst

Information Technology Classes

- Year 1: Exp. CS Programming/Exp. CS Robotics
- Year 2: Cyber Security
- Year 3: Student Technology Help Desk (Indep. Study)
- Year 4: Certification/Internship

What do we Learn in Informational Tech Pathway?

- Hands-on networking, cyber security, software and hardware repair

- Systems administration and cloud computing

- Troubleshooting and problem solving
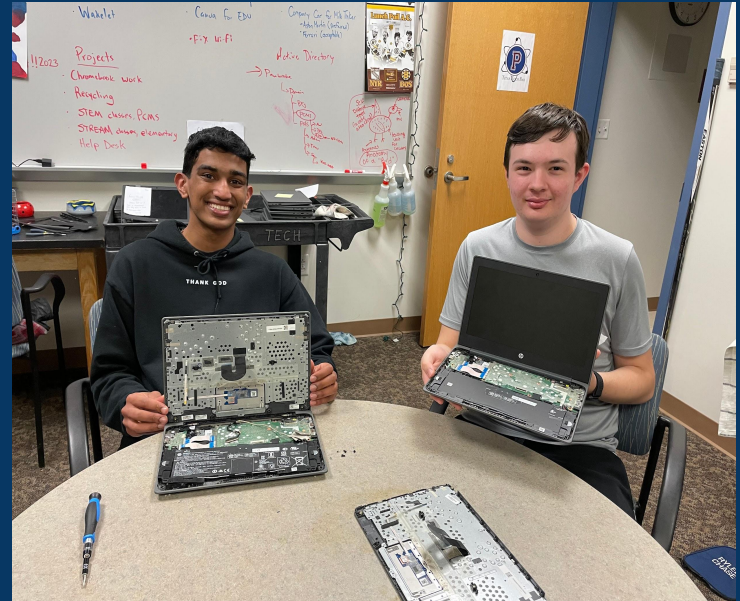
What is the Difference between Computer Science and Informational Technology pathways?

- Information Technology is the hands-on application of the theory of Computer Science
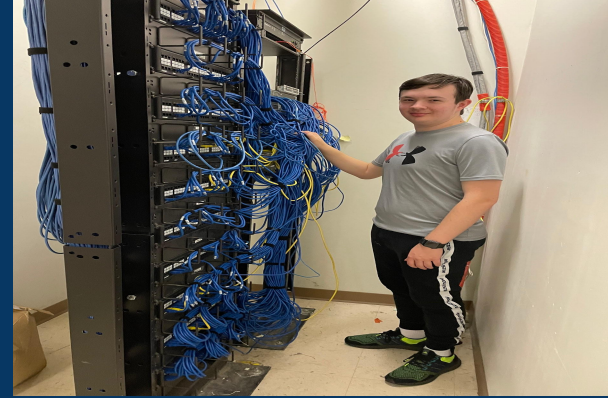
Questions?

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