



PETERS
TOWNSHIP
SCHOOL DISTRICT

Education Committee

April 9, 2018

Education Committee Agenda

- ▶ Welcome
 - Chair: Mrs. Minna Allison
- ▶ PTHS New Course Proposals & Name Changes
- ▶ Academic Integrity Committee
- ▶ Curriculum Updates
- ▶ Additional Work in Progress
- ▶ Public Comment

PTHS New Course Proposals

- ▶ Three new proposed courses will be offered at PTHS as a part of our continued expansion of STEM opportunities.
 - Anatomy & Physiology II
 - Applied Engineering & Innovation
 - Rapid Prototyping Engineering



Science



Technology



Engineering



Mathematics

PTHS New Course Proposals

▶ Anatomy & Physiology II

- Anatomy & Physiology II is the second of two introductory courses in human anatomy and physiology.
- This semester course will examine the structure and function of the human body including the study of Cardiovascular, Respiratory, Digestive, Endocrine, Lymphatic and Urinary Systems.
- The course's laboratory component will include anatomical studies using microscopy, modeling, and dissection.
- Anatomy & Physiology I is the pre-requisite for this course.

PTHS New Course Proposals

▶ **Applied Engineering & Innovation**

- In this semester course, students will focus on collaborative problem solving alongside neighboring school districts and industry partners.
- The course focuses on project-based learning that mimics real world engineering challenges.
- Course work is student-driven and directed by challenges presented by industry partners.
- The Introduction to STEM course will be a pre-requisite course.

PTHS New Course Proposals

▶ Rapid Prototyping Engineering

- In this semester course, students will further their studies of engineering design.
- Students will obtain hands-on exposure to processes commonly used to rapidly fabricate prototypes.
- Using *SolidWorks* and *ANSYS AIM* software, students will produce, test, and analyze their designs.
- Computer Aided Drafting & Design (CADD) will be a pre-requisite for this course.

PTHS Course Name Changes

- ▶ Physical Education
 - Change name of PE III to Competitive Games
- ▶ Social Studies
 - Change name of Intro to Psychology to Psychology
- ▶ Tech Ed (STEM)
 - Change name of Architectural Processes to Architecture Engineering I
 - Change name of Automated Manufacturing to Automation Engineering

Academic Integrity Committee



Academic Integrity Committee

- ▶ Overview of the Committee:
 - 17 teachers, students, administrators, and parents participated in the Committee.
 - The Committee met four times this school year from October 2017 to March 2018.
- ▶ Goals of the Committee:
 1. Develop a working definition of “Academic Dishonesty.”
 2. Examine current trends at PTHS involving student cheating, copying, and academic dishonesty.
 3. Identify instructional, grading, and assignment practices that might unknowingly encourage academic dishonesty.
 4. Generate ideas for instructional, grading, and assignment practices to discourage academic dishonesty.
 5. Make recommendations for building-wide practices related to Academic Integrity.

Academic Integrity Committee

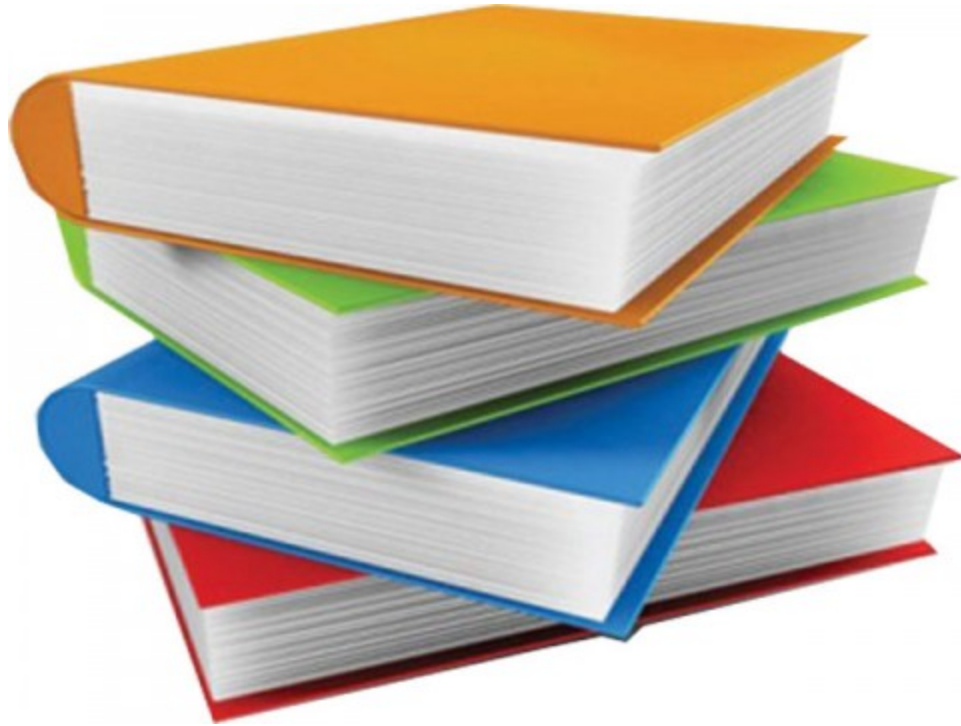
▶ Work Completed:

- Researched and considered policies and procedures from more than 20 school districts and colleges/universities.
- Developed an Academic Integrity Policy consistent with the District's Mission & Vision.
- Identified the work necessary to create a school culture that values academic work while also recognizing student pressures.

▶ Next Steps:

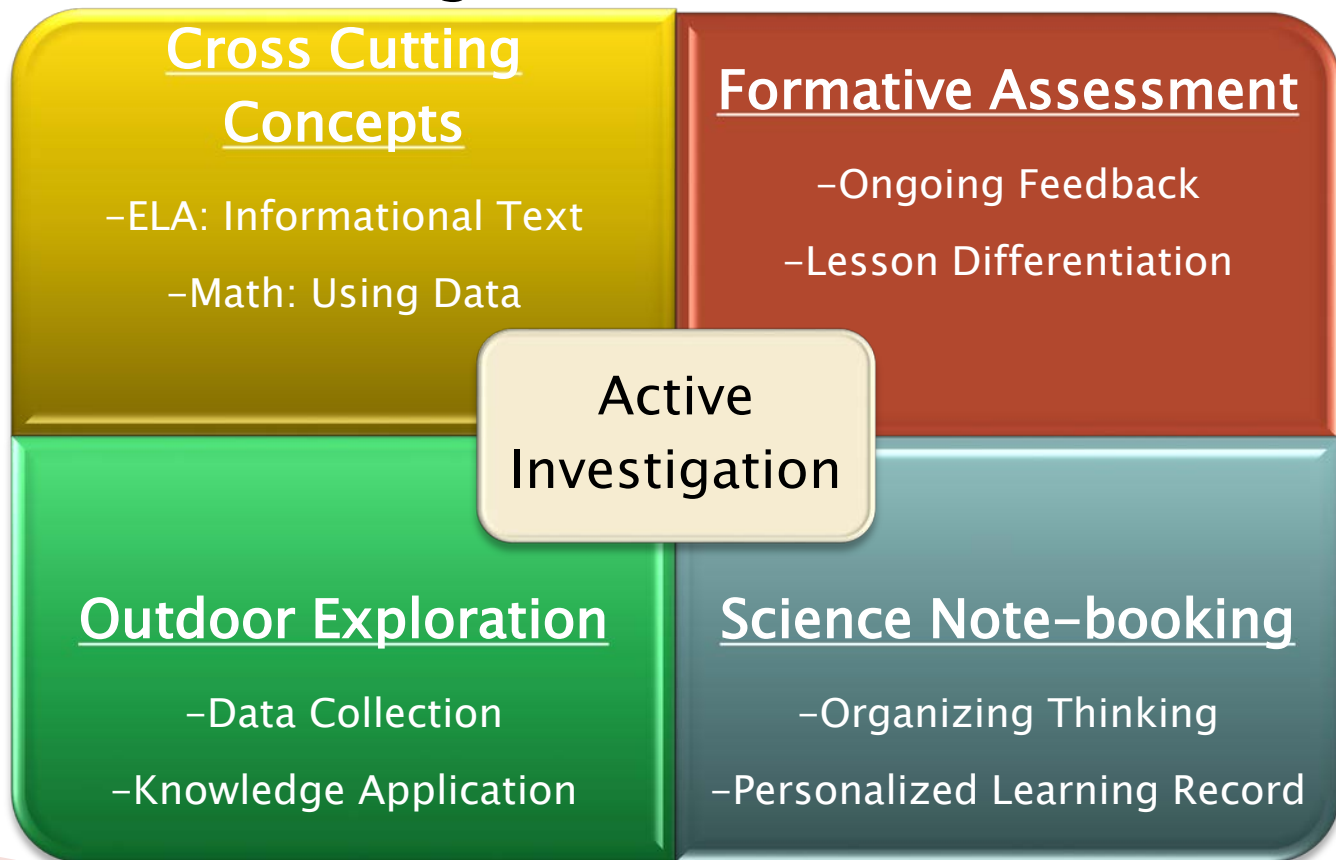
- First Read of Academic Integrity Policy on April 23rd.
- Professional Development for teachers and staff will occur.
- Communication to students and families including changes to the Student Handbook are necessary.

Curriculum Updates



K – 6 Science Curriculum

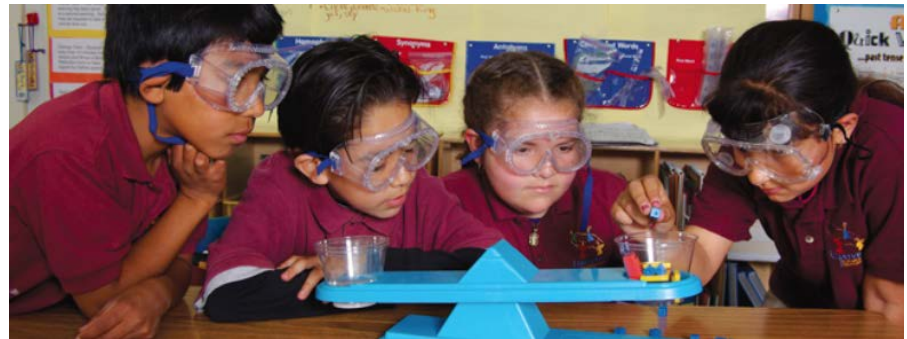
- ▶ Delta FOSS (Full Option Science System)
 - Instructional Design



K – 6 Science Curriculum

▶ Standard Alignment

- Next Generation Science Standards (NGSS)
 - Investigations that integrate complex science and engineering practices
 - Focuses on content specific core ideas and cross-cutting concepts from other disciplines
 - Skills spiral throughout the scope and sequence
- Pennsylvania State Science Standards



K – 6 Science Curriculum

► Scope and Sequence

| Grade Level | Physical Science | Earth Science | Life Science |
|-----------------------|-----------------------------|------------------------------------|----------------------------|
| Kindergarten | PLTW – Human Body | Trees and Weather | |
| 1 st Grade | Sound and Light | | Plants and Animals |
| 2 nd Grade | PLTW – Properties of Matter | Pebbles, Sand, and Silt | Insects and Plants |
| 3 rd Grade | Motion and Matter | Water and Climate | Structures of Life |
| 4 th Grade | Energy | Solids, Rocks, and Landforms | Environments |
| 5 th Grade | Mixtures and Solutions | Earth and Sun | Living Systems |
| 6 th Grade | | Weather and Water Earth History | Populations and Ecosystems |

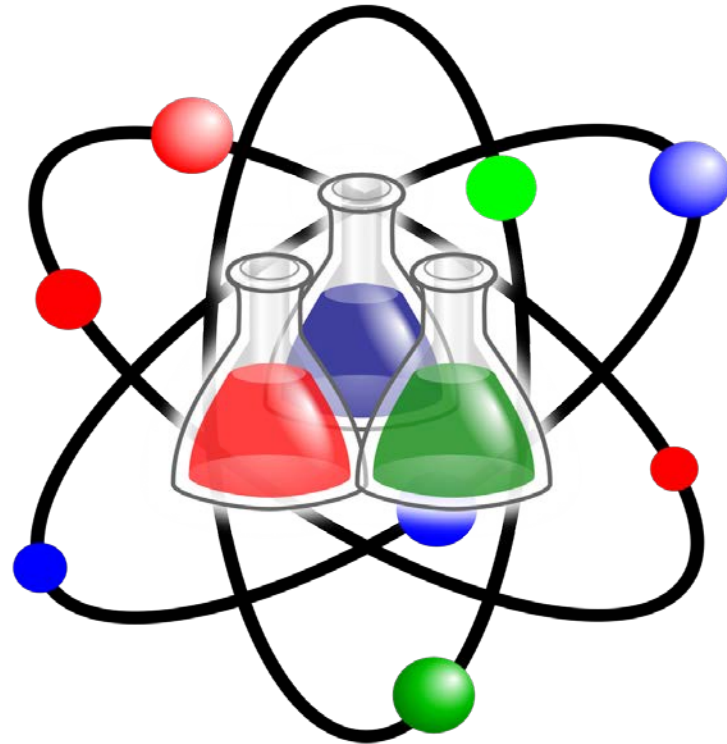
K – 6 Science Curriculum Next Steps

- ▶ **Spring Pilot**
 - Pilot materials were received and training was conducted in March.
 - Grade level science representatives will begin pilot in April.

- ▶ **Board Approval**
 - May Voting Meeting

- ▶ **Teacher Training**
 - June 11, 12, and 13

- ▶ **Implementation**
 - August 2018



Arts Education Collaborative (AEC)

- ▶ K – 12 Visual Arts Program – Curriculum Work
 - During the 2018 – 19 School Year, the Visual Arts Department is in the “Curriculum Review” phase of the Curriculum Cycle.
 - AEC will facilitate a K–12 self–assessment process in visual arts during the 2018–2019 school year that will assess the current status of our programs, identify areas for commendation, and make recommendations for improvement.
 - Teachers will create an action plan for curriculum development.



Additional Work in Progress

**WORK IN
PROGRESS**

TEALS Program

- ▶ TEALS (Technology Education and Literacy in Schools) has supported Mrs. Stawartz and students in AP Computer Science Principles this school year.
 - Two volunteers have supported the classes through the Lab Support Model.
 - The program has also provided curriculum support and will work with Mrs. Stawartz to create enrichment projects for students.
- ▶ Next year, we would like to expand the program to support Mr. Guerra and his AP Computer Science A course.
 - Through the Classroom Enrichment Model, volunteers will provide virtual and on-site consultation for students to receive support from experts in the field.



Additional Work in Progress



▶ Improving School Culture

○ Rachel's Challenge

- Designed to enhance and support school efforts in character education, anti-bullying, and suicide prevention



○ Natural Helpers

- Identify and build a “helping network” of students as an added layer of support for at-risk students

Additional Work in Progress

- ▶ Potential Middle School Soccer Program
 - Fall Surveys indicated a desire to add a Middle School Soccer Program.
 - A Middle School Program will provide a natural feeder to the High School Program.
 - Currently, Eighth Grade Students do not have an option to play soccer in the Fall Season.



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