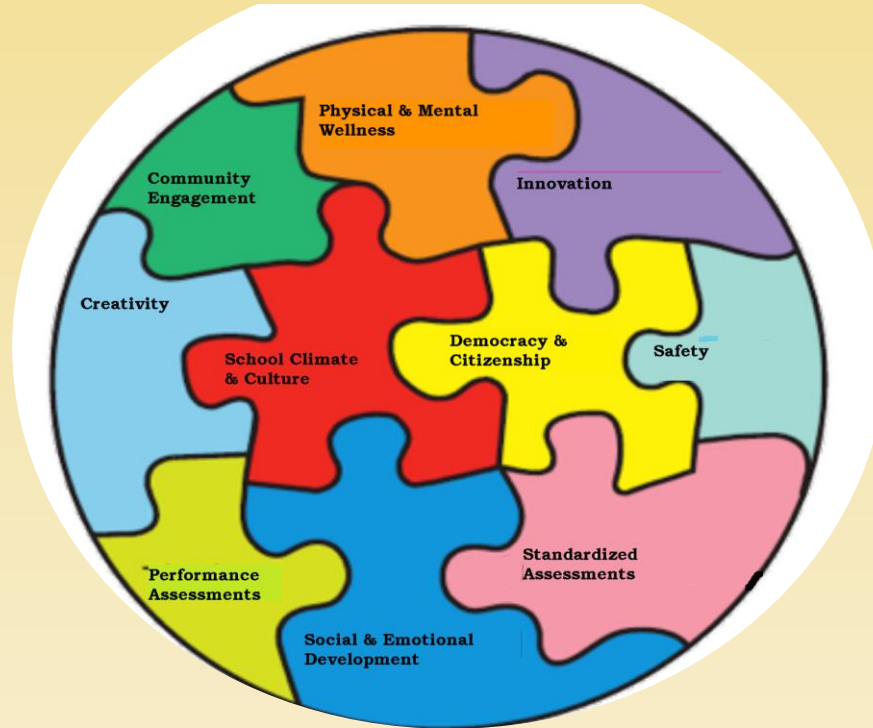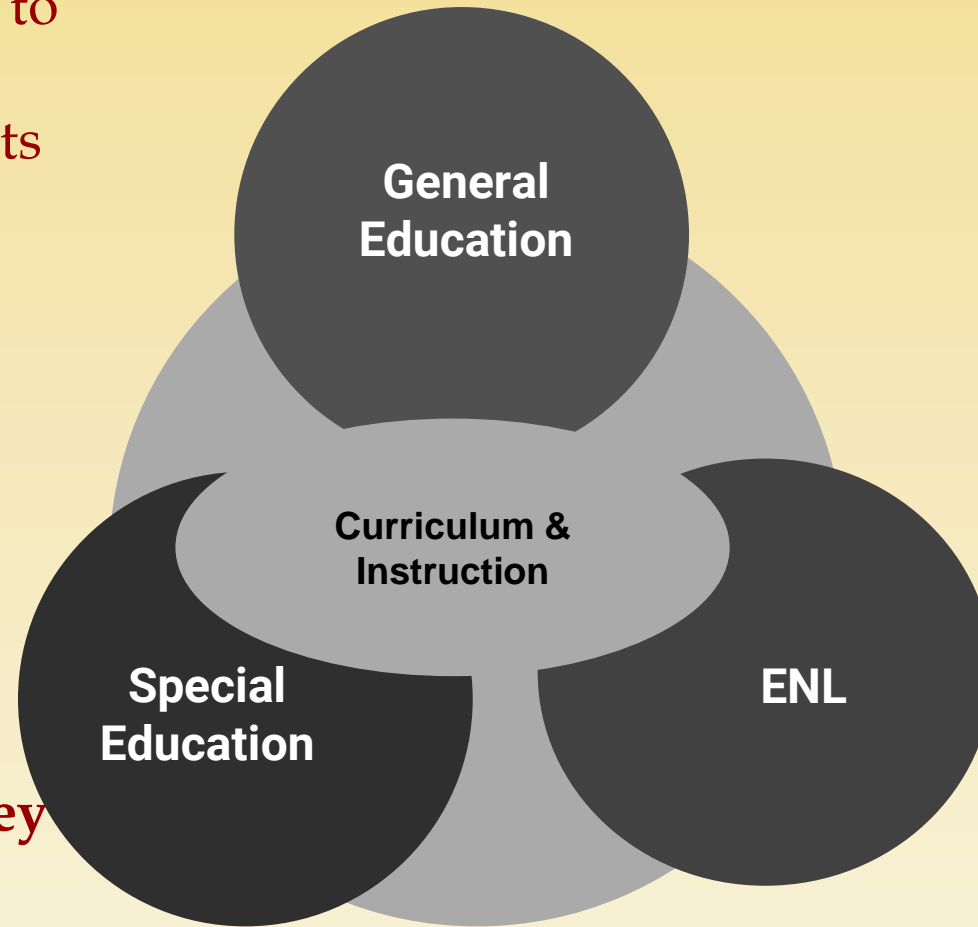# Sachem Central School District

Curriculum and Instruction
Instructional and Network Technology Update
November 20, 2019

Curriculum and Instruction ~Our Beliefs~

- Mastery vs. Coverage
- Teachers should have autonomy to teach their curriculum at a pace based on the needs of the students in front of them.
- Use data to make these instructional choices "Sachem Norms"
- District-created curriculum vs. canned programs
- Collaboration is key
- **Students unpack own learning**
- **Equal access for all**
- **Students can show you what they know in many ways**

General Education

Curriculum & Instruction

Special Education

ENL

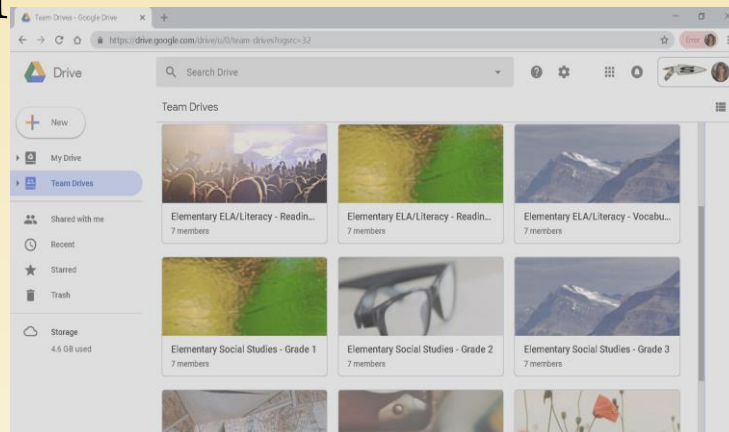SACHEM CENTRAL SCHOOL DISTRICT
We Are Sachem

19-20 Overview

- Google Suite: Full Implementation for Teaching and Learning K-12 , Full Utilization of Purchased Laptop Carts K-12

- Google Expeditions: Virtual Reality Headsets

- Robotics, Coding & Social Learning Platforms
- Flipped Classroom & Project Based Learning
- Revision Academic Intervention Services: Read 180 Software
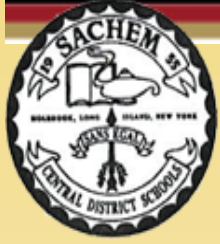- Creation of High School Music Labs

G Suite for Education

- New **Google** Shared Drives & Classroom
- Training for Administrators & Department Chairs
- Training for all K-12 Teachers

~Adam Welcome & Model Schools BOCES Team Members

Robotics, Coding & Social Learning Platforms

- Vex Robotics Kits
- Coding
- Spheros
- Ozobots
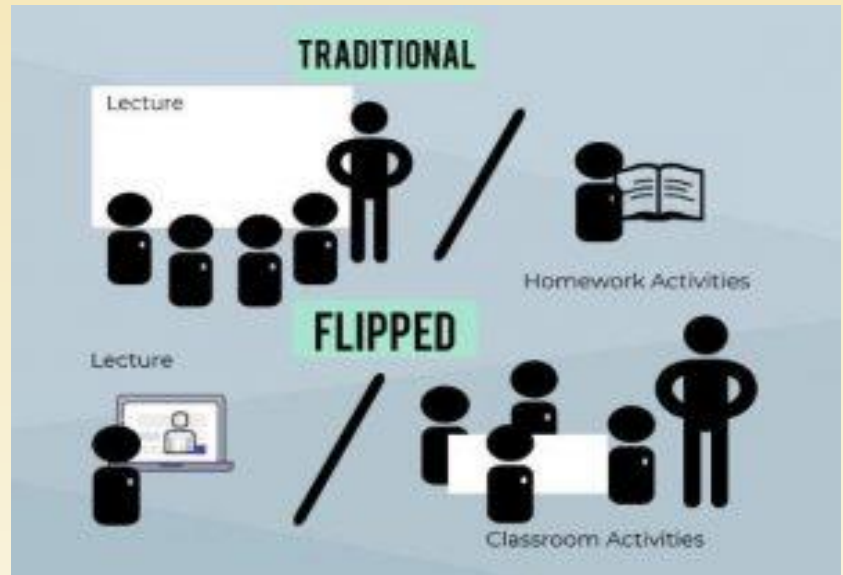- 3D Printing
- Drones
- VERB
- FLIPGRID
- Anchor Podcasting

Flipped Classroom

A flipped classroom is an instructional strategy and a type of blended learning that reverses the traditional learning environment by delivering instructional content, often online, outside of the classroom. It moves activities, including those that may have traditionally been considered homework, into the classroom.

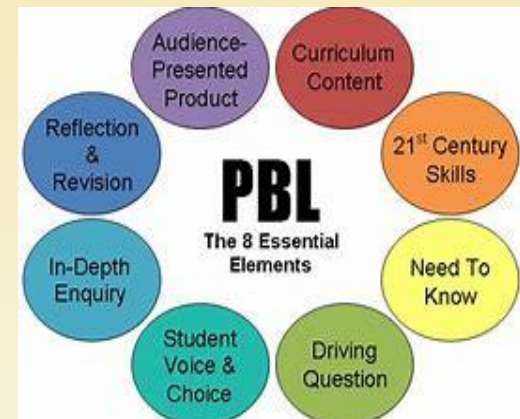**Matt Baruch~ Math and Science**

Departments

TRADITIONAL

Lecture

Homework Activities

FLIPPED

Lecture

Classroom Activities

Project Based Learning

Sachem North and East

- Department chairs and teachers undergoing training with Buck Institute: Plan and Execute a PBL Unit in the spring.

- Faculty Trainings

- Project Resources

- Student Voice and Choice

Computer Science Standards

- ❖ Computational Thinking
- ❖ Cybersecurity
- ❖ Programming
- ❖ Digital Literacy
- ❖ Artificial Intelligence
- ❖ Network Systems
- ❖ Impacts of Computing

DRAFT NEW YORK STATE
COMPUTER SCIENCE AND DIGITAL
FLUENCY LEARNING STANDARDS
GRADES K-12
2019

~Implementing new standards with programs in place!

Smart Schools Update

- Security Vestibules and Visitor Management Systems are completed.

- Reminders:

  ❖ Infrastructure has not been able to be upgraded since before East was built

  ❖ Wireless in 3-4 isolated locations in each building

  ❖ As of spring 2017 - Only 300+ Laptops/Chromebooks spread across 15 buildings

  ❖ Current – fall 2019 - Over 3200 laptops throughout the district and adding additional laptop carts to all buildings and programs within the current school year

2019-2020 Smart Schools Work

- Next Steps

  ❖ Replacement of all analog cameras with digital
  ❖ Add cameras at every building

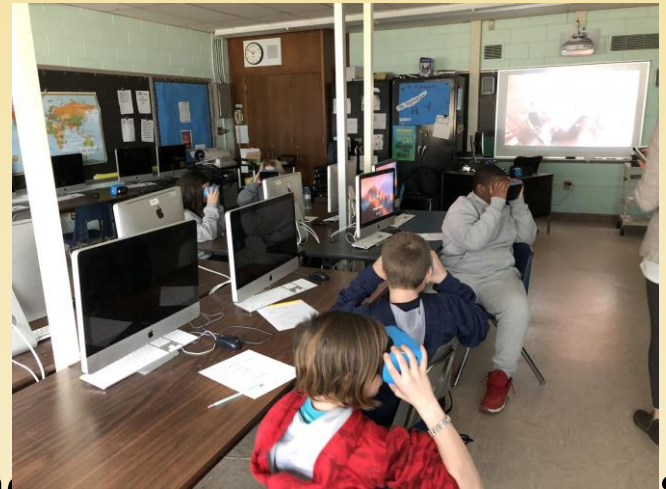- Consolidate Switches

- Upgraded Code

- Redundancies

- Power for Phones and Access Points

- Full coverage wireless network

- Server for Logon Security and Management for wired and wireless connectivity

- Network storage for user, building, district, security data

- Continued addition of student devices

Sachem Central School District
We Are Sachem

Thank you for your continued support!

Questions? Comments?