



INSTRUCTIONAL TECHNOLOGY

BOARD OF EDUCATION PRESENTATION

FEBRUARY 16, 2022

MR. FRED KADEN, DIRECTOR OF TECHNOLOGY

MR. TOM LYNCH, EXECUTIVE DIRECTOR FOR INSTRUCTIONAL TECHNOLOGY AND STEM

TOPICS FOR TONIGHT'S PRESENTATION

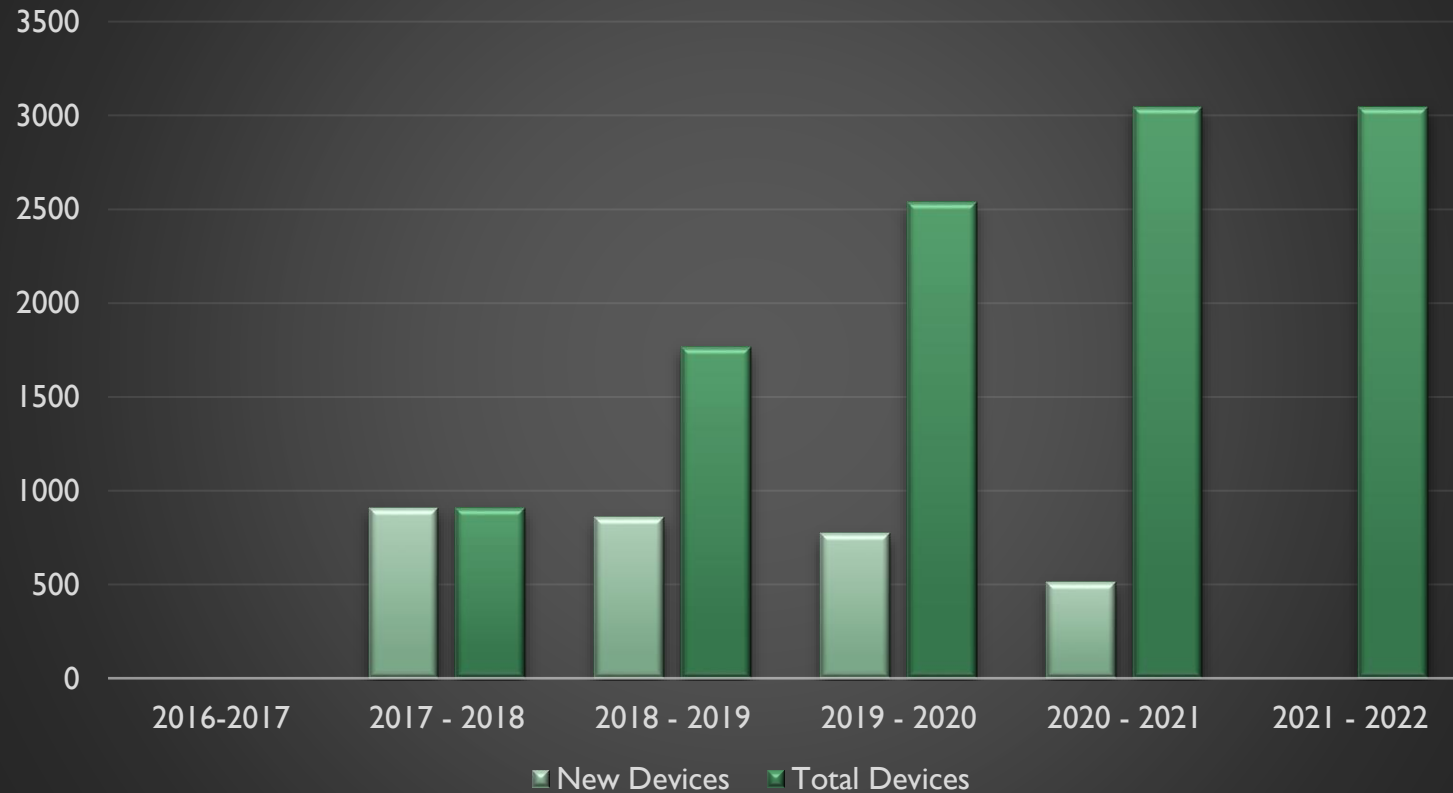
- The Personalized Digital Learning (PDL) Environment
- Infrastructure Improvements
- Supports
- Instruction
- Looking Ahead



Growth of the PDL Environment







*During the 2016 – 2017 school year there were no 1:1 devices

Number of 1:1 Devices



Five Year Replacement Plan

	17-18	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28	28-29	29-30
6th	New (Year 1)	New	New	New				Year 3					
7th		Year 2			New	New	New	Year 4					
8th			Year 3						Year 5				
9th	New	New	New	Year 4						New	New	New	
10th					Year 5								
11th						New Device Again	New	New	New				
12th							Year 2				New	New	New

	2017 – 2018	2018 – 2019	2019 – 2020	2020 – 2021	2021 – 2022	2022 - 2023
Grade	6 th	7 th	8 th	9 th	10 th	11 th
						

INFRASTRUCTURE WORK COMPLETED DISTRICT-WIDE DURING THE LAST TWO SCHOOL YEARS



Our new Extreme Access Points are 802.11ax. Each access point offers 5 – 10GB throughput, providing greater bandwidth, a more stable Wi-Fi connection and wider access



INFRASTRUCTURE WORK COMPLETED DISTRICT-WIDE DURING THE LAST TWO SCHOOL YEARS



All switches are POE (Power over Ethernet). They supply power to the phones and access points without an additional power supply. Using color coding scheme, which matches our cabling, we have a more organized approach to managing the network and better troubleshooting capabilities



INFRASTRUCTURE WORK COMPLETED DISTRICT-WIDE DURING THE LAST TWO SCHOOL YEARS



Our new updated virtual servers will meet the current demands of today's technology. This hardware is design to last us through the next 5 years and meet future demands of the network.



INFRASTRUCTURE WORK COMPLETED DISTRICT-WIDE DURING THE LAST TWO SCHOOL YEARS

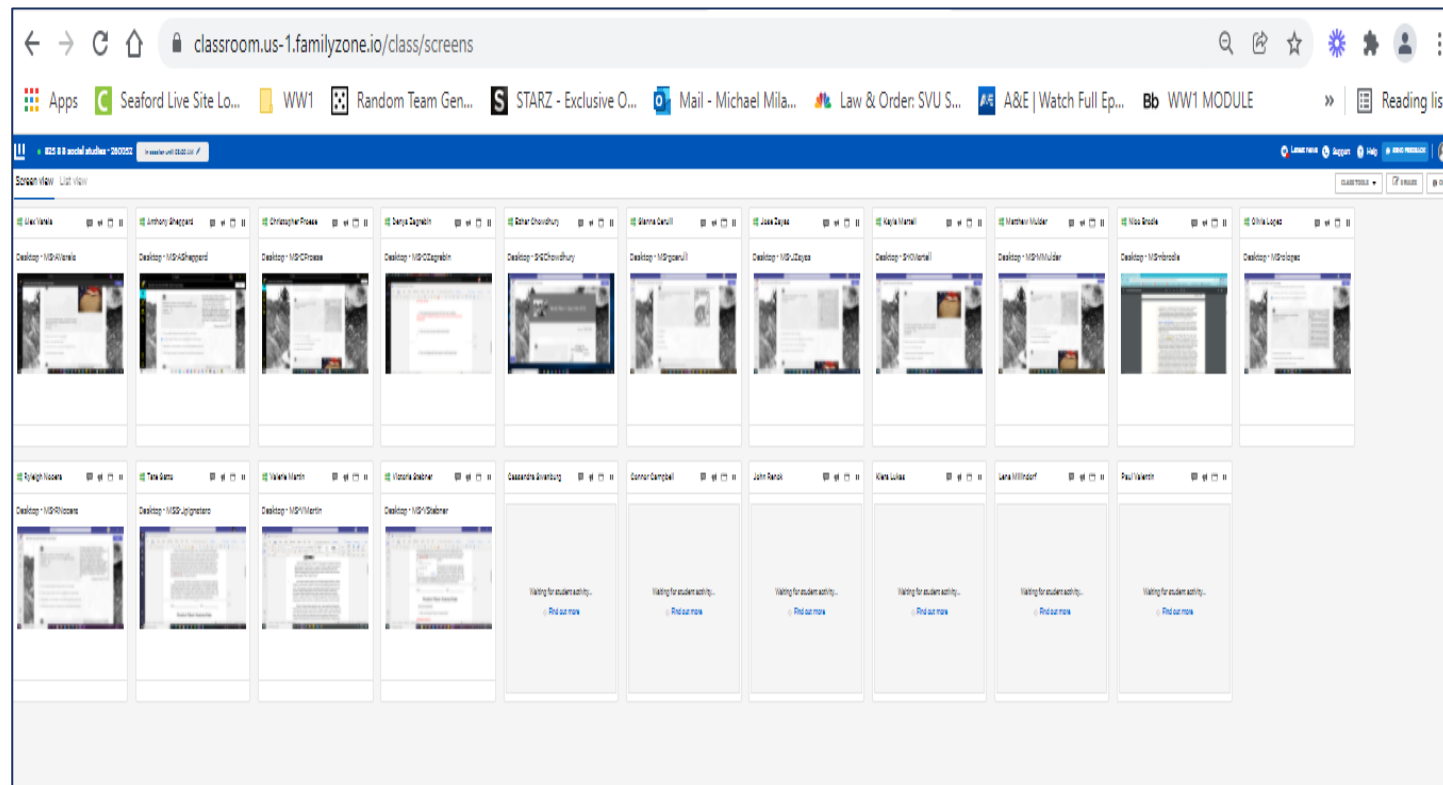


The infrastructure work completed during the last two school years was possible by funding through the Smart Schools Bond Act and Seaford Budget. Funds supplied by the District are partially reimbursed (Instructional Devices through BOCES is 63% and the Administrative Fees is 54%) by Nassau BOCES the following budget year.



KEEPING USERS SAFE

The Technology Department has several safeguards in place to keep students safe and focused on learning while using their district device. This includes real-time monitoring of student usage by the classroom teacher and the Technology Department.




KEEPING USERS SAFE

Red Flags

[VIEW ALL](#)


John Doe


 Hate Speech

 VPN

 Violence

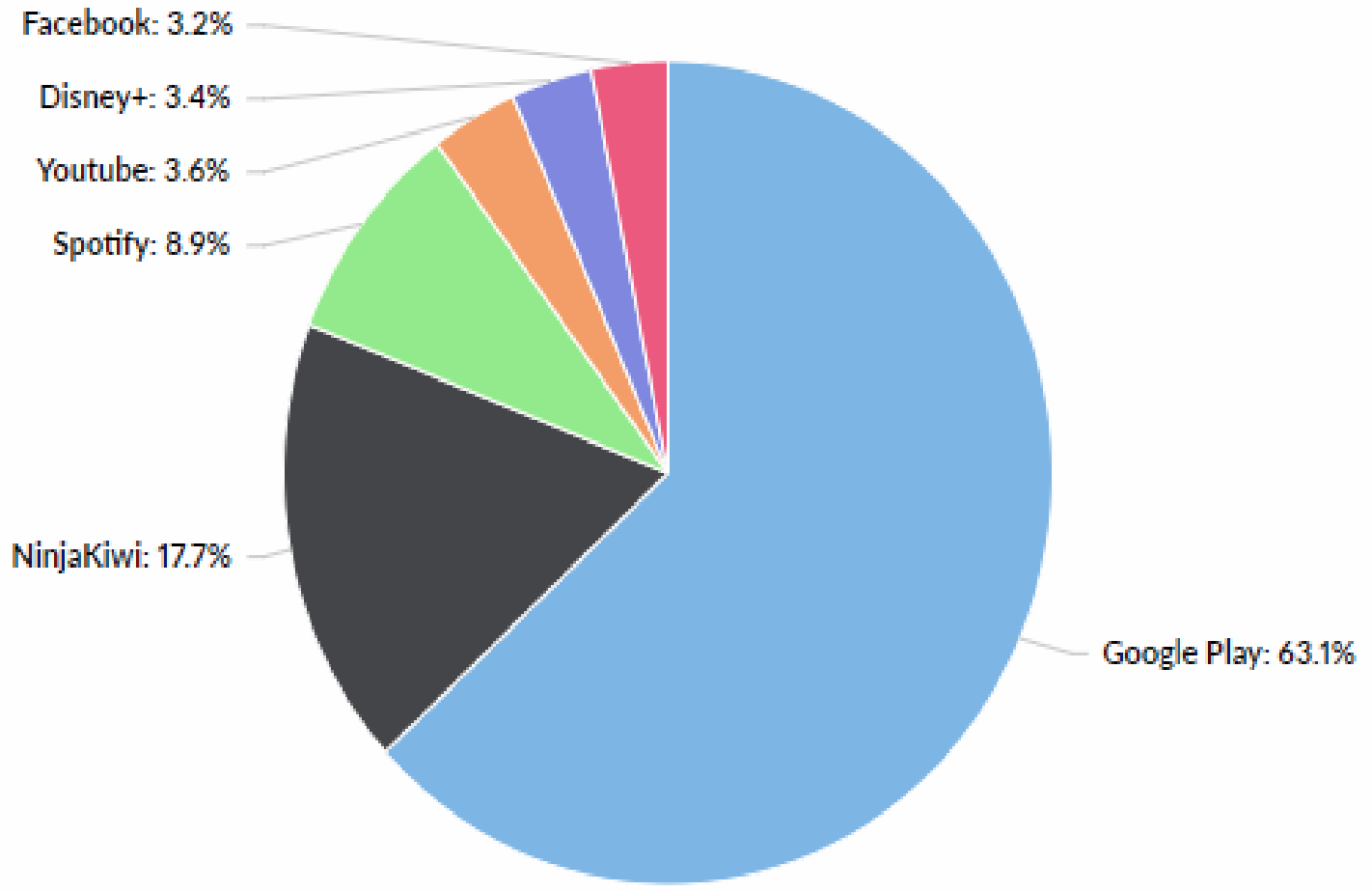
 VPN

 Depression

 Depression

Blocked Content

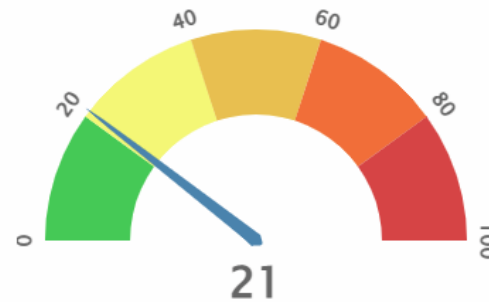
[VIEW ALL](#)



KEEPING THE NETWORK SAFE

In addition to keeping users safe, there are redundancies in connectivity to keep the network 'up and running' and additional resources tasked with protecting the network from Ransomware and viruses. This includes both non-network backup of data onsite and in the cloud. Staff are trained to be alert for phishing emails. Students can only receive email from users on the Seaford domain.

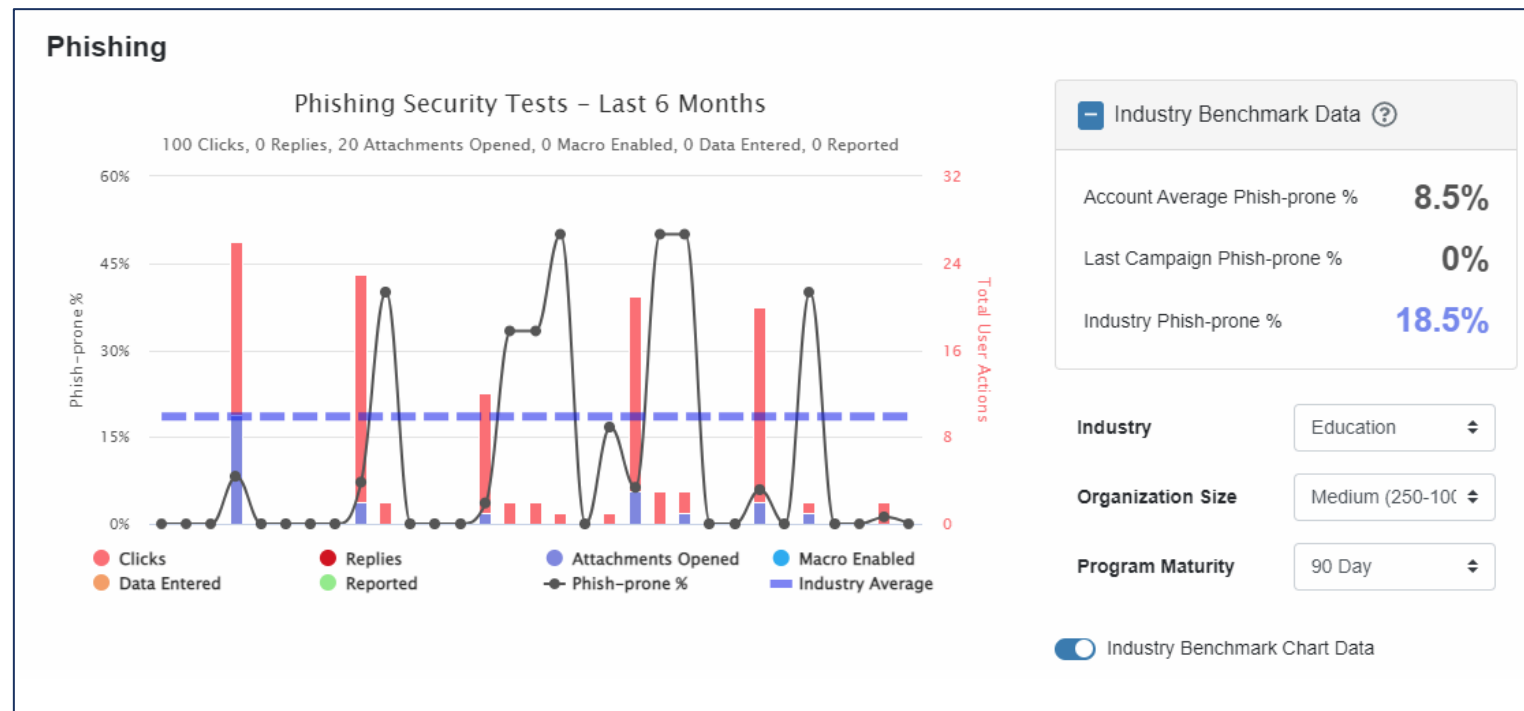
Organization's Risk Score



See our [Virtual Risk Officer \(VRO\) Guide](#) for details about how Risk Scores are calculated.

KEEPING THE NETWORK SAFE

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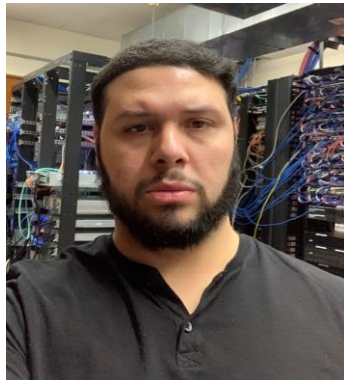




**SUPPORTING INSTRUCTIONAL
TECHNOLOGY**



The Techy Bunch



INSTRUCTIONAL TECHNOLOGY SUPPORTS

Model School Days – Offered through Nassau BOCES providing training on a wide-range of products. Training has been conducted both virtually and in-person. We have been working with Ms. JoAnn Donovan for the past three years.

Microsoft

- Office 365
- OneNote and Class Notebook
- Teams for Education

Mobile Device Tools

- Enhancing Instruction with Mobile Devices
- QR Codes for the Classroom

Other Software

- Book Creator
- Buncee
- Classkick
- Creating Digital Assessments
- Digital Breakout EDU activities
- Ed Puzzle
- Flipgrid
- Flocabulary
- IXL
- Kahoot
- Kami
- Loom
- Nearpod
- Newsela
- Padlet
- Pear Deck
- Screencastify
- Seesaw
- Wakelet
- WeVideo
- Wixie

 Office 365

INSTRUCTIONAL TECHNOLOGY SUPPORTS

Many of the software companies that we have purchased from provide both synchronous and asynchronous training, which has occurred both in-person and virtually. These have occurred during Superintendent's Conference Days, Department Meetings, Grade Level Meetings and Team Meetings. Below is an abbreviated list of trainings.

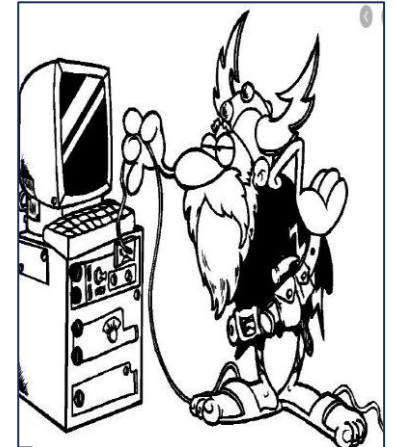
- NWEA
- Gizmos
- Seesaw
- Think Central
- Nearpod
- Flocabulary
- Cengage/National Geographic Social Studies



INSTRUCTIONAL TECHNOLOGY SUPPORTS


Students are first introduced to their laptop in Third Grade. Students are given training on how to logon, how to save files, how to use their OneDrive as well as navigating the internet using Microsoft Edge.

In Sixth Grade students are able to bring their devices home and receive additional training on laptop care, digital citizenship and how to effectively use their device as a learning tool.



INSTRUCTIONAL TECHNOLOGY SUPPORTS

In addition to the training done in-person or virtually, there are many resources online on the Seaford District website for students, parents and staff to learn more about the available instructional technology resources.



Microsoft Teams Teacher Tips

Create a Meeting

1. Open Up calendar
2. Click new meeting
3. Give it a title, date, time set REOCCURRING (every weekday, daily, weekly, etc.)
4. Add channel/team -- description
5. Click "SEND" (Top right)
6. Go back into the scheduled meeting on the calendar and click on "Meeting Options" (at the top)
7. Change the drop down box to, "Who can present?" to "Only Me"

Turn off Chat for Students

1. Go to your TEAM name on the left and click the three dots.
2. Click "Manage Team"
3. Click "Members and Guests"
4. Check box "Mute Student"

This will not mute from speaking, only using the chat.
(Keep in mind that if students' mics are broken, they won't be able to participate.)

Stop Students From Meeting before you get there -- Send to Lobby

1. Go to Calendar and Click on Meeting
2. Click "Meeting Options" (toward the top)
3. Change the drop down box next to who can bypass the lobby to, "Only Me"

Stop Emoji's/Memes in the Chat

1. Go to your TEAM name on the left and click the three dots.
2. Click "Manage Team"
3. Click "Settings" at the top
4. Click "Fun Stuff"

You can uncheck these things!

Stop Students from Creating Meetings

1. Click the three dots by "General" on the left of the screen under your TEAM name.
2. Click "Manage Channel"
3. Click, "Only owners can post messages."

ARRG Tabitha Woods August 2020

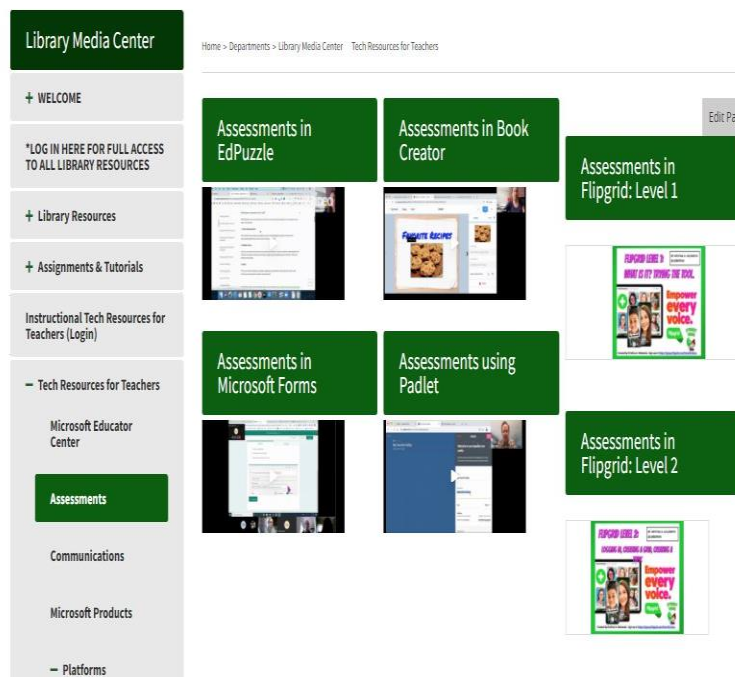


SEAFORD High School
Union Free School District

Select a School | User Options | Search

FOOD SERVICES | CONTACT | PORTAL

Home | Departments | Extracurricular | Guidance | Parents/Students | Teacher WebPages | Twitter Feed | Calendar



Library Media Center

Home > Departments > Library Media Center > Tech Resources for Teachers

WELCOME

*LOG IN HERE FOR FULL ACCESS TO ALL LIBRARY RESOURCES

Library Resources

Assignments & Tutorials

Instructional Tech Resources for Teachers (Login)

Tech Resources for Teachers

- Microsoft Educator Center
- Assessments
- Communications
- Microsoft Products
- Platforms

Assessments in EdPuzzle

Assessments in Book Creator

Assessments in Flipgrid: Level 1

Assessments in Microsoft Forms

Assessments using Padlet

Assessments in Flipgrid: Level 2



SEAFORD Union Free School District

Select a School | User Options | Search

Anonymous Alerts Report student concerns quickly to school officials

FOOD SERVICES | CONTACT | PORTAL

Home | Board of Education | District Administration | Community | Parents/Students | Calendar



Technology Resources

Home > Parents/Students > Technology Resources > Welcome

Welcome

News & Updates

Internet Safety and Child Welfare Sites

Important Seaford Sites

- Parent/Child's rights
- Parent Portal Help
- Seaford's Personal Digitized Learning Environment
- HP Probook x360
- Device Agreement
- Acceptable Use Policy
- Online Etiquette for Students and Parents

Frederick Kaden
Director of Technology
1575 Seamans Neck Road
Seaford, NY 11783
(516) 592-4390
fkaden@seaford.k12.ny.us



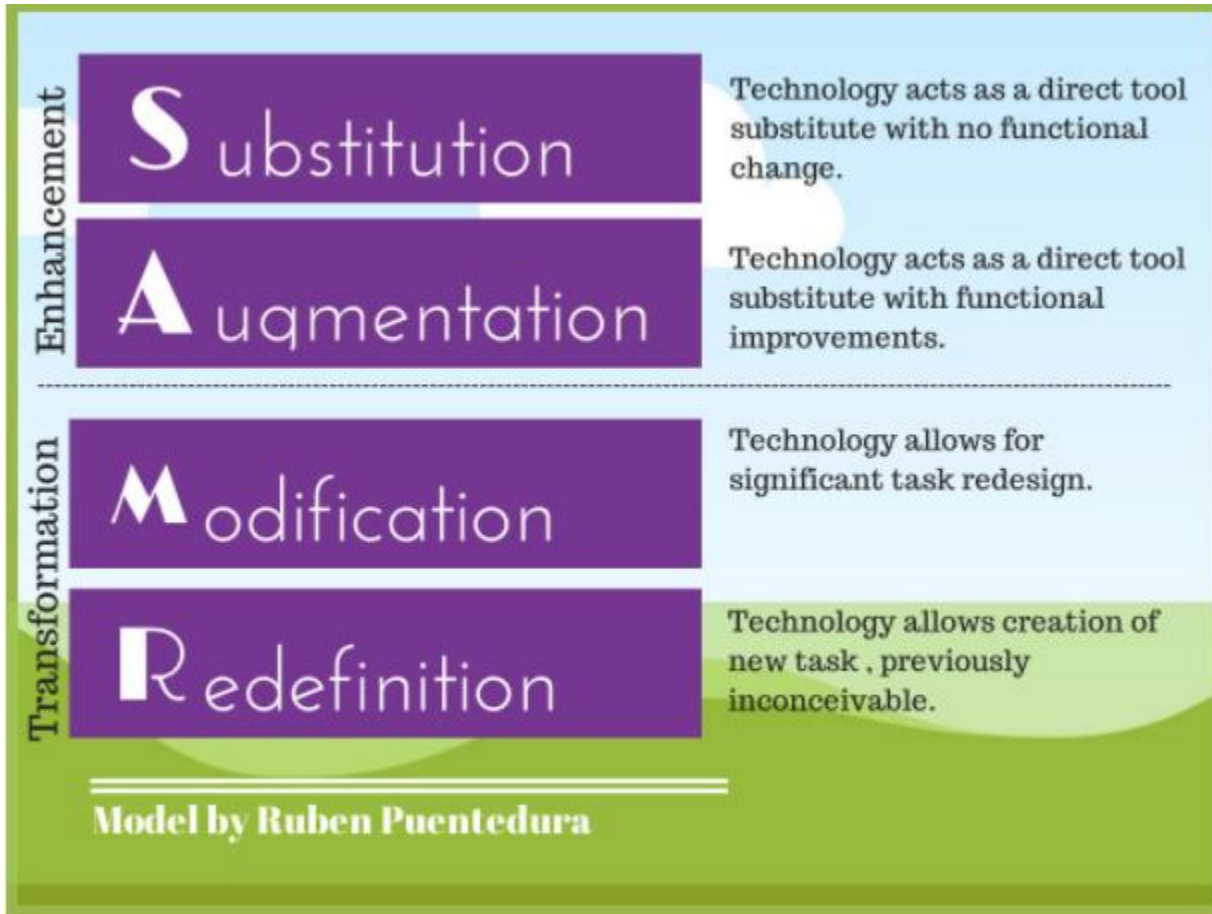


Hello! Welcome to Technology Resources!

Welcome to the Seaford Schools Website.

It is my intention to make navigation within the website as easy as possible. Please check in regularly to see the latest updates and be sure to register within our websites to receive information from our e-alert system. If you have any questions, comments or suggestions, please feel free to contact me.

INSTRUCTIONAL TECHNOLOGY – THE SAMR MODEL




The SAMR model identifies four levels of teaching and learning using a 1:1 device. It is a spectrum; at one end, the technology is used as a replacement for traditional tools (Substitution) and on the other end the technology enables experiences that were previously impossible without it (Redefinition).

In Seaford Schools, we have students engaged in all levels of the SAMR model.

MICROSOFT TEAMS




▼ Your teams




Period 1 Social Studies

...




Period 8 Social Studies

...




2022 Seaford HS Baseball Pre-Season

...




Period 6 Social Studies

...



Period 4 Social Studies

...




Examining the Law

...

MICROSOFT TEAMS



< All teams






Period 8 Social Studies ...

- Class Notebook
- Assignments
- Grades
- Insights



Channels


- General
- Unit 2 - The Gilded Age
- Unit 2B - The Progressive Era
- Unit 3 - U.S. Imperialism
- Unit 4 - World War I**
- Unit 5 - America Between the Wars (...)

 **Unit 4 - W...** Posts Files Notes +   ...

[View assignment](#)

← Reply

 **Michael Milano** 2/3 6:51 PM 



UPCOMING SCHEDULE

World War 1 Upcoming Class Schedule

Friday - **Multiple Choice Quiz** & Paris Peace Conference/14 Points/Treaty of Versailles

Monday - **Map Quiz** (Map on pg 694 [World War 1 Module](#) will be helpful)

Tuesday - Module Lesson 4 **HW** Due - Wrap Up WW1

Wednesday - Cause & Effect Written Essay Paragraph **(Test Grade)**

Thursday - Review (Quizizz) & Open Book Test Questions **(Test Grade)**


Friday - **Multiple Choice Exam** on World War 1

[World War 1 Complete Notes Packet](#)

[See less](#)

← Reply

Friday, February 4, 2022

 **Assignments** 2/4 1:17 PM

World War 1 Quiz Feb 2022

Due Feb 4

[View assignment](#)

← Reply

MICROSOFT TEAMS



- Activity
- Chat
- Teams
- Assignments
- Calendar
- Calls
- Files
- ...

Map.pdf

Name _____ Date _____



GEOGRAPHY APPLICATION: REGION *A New Look for Europe*

Directions: Read the paragraphs below and study the maps carefully. Then answer the questions that follow.

In 1919, a peace conference to formally end World War I was held at the Palace of Versailles near Paris. President Wilson, heading the U.S. delegation, had a plan called the Fourteen Points that he hoped would restore stability to Europe.

Of Wilson's points, eight dealt with boundary changes intended to allow European ethnic groups to decide their national identities. Another point called for the formation of a League of Nations to oversee world peace.

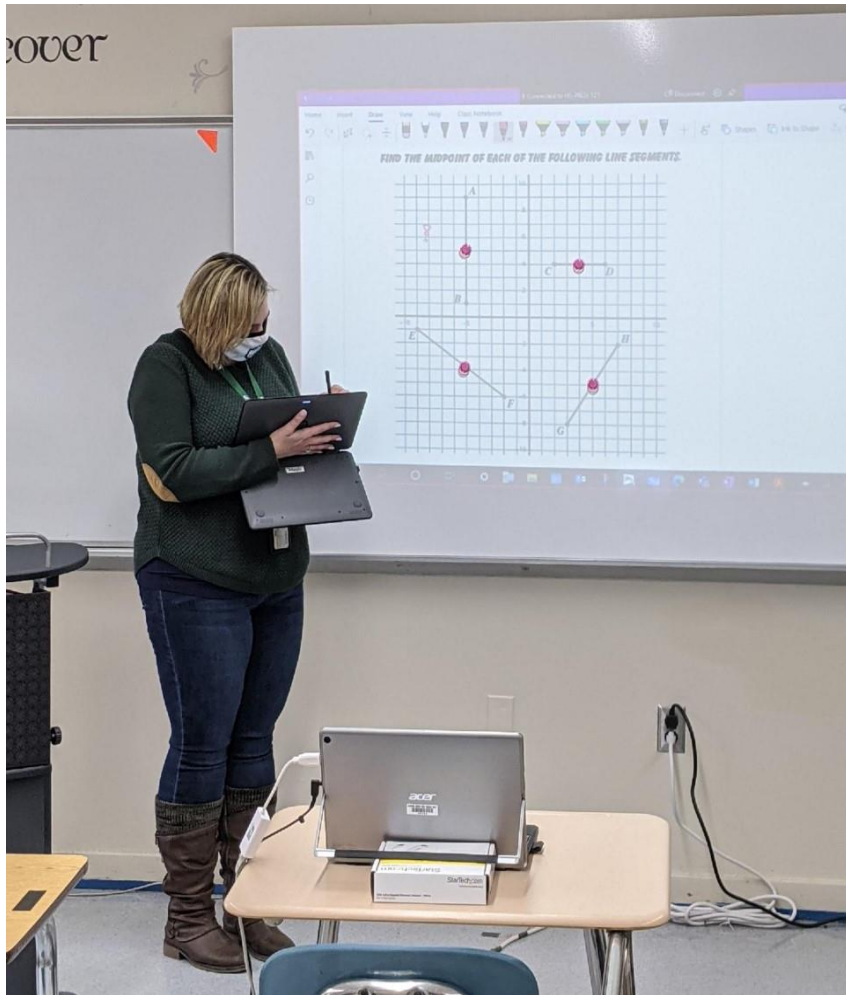
However, Wilson's idealism collided with hatred and fear. The French premiere had lived through two German invasions of his country, and he was determined to prevent that from happening again. The British prime minister had just won reelection

with the slogan "Make Germany Pay." Also, contrary to custom, the conference did not include officials of the defeated countries, and Russia and the smaller Allied nations were excluded.

The Treaty of Versailles created nine new nations and changed the boundaries of others. (Shortly thereafter, in 1922–1923, the Soviet Union and Turkey came into being.) But the treaty failed to establish a lasting peace. The U.S. Senate even refused to sign the treaty because of fears that membership in the League would drag the United States into future European squabbles. Many historians blame the flawed treaty for encouraging the conflicts and resentments that surfaced in the 1930s and led to World War II.



MICROSOFT ONENOTE



MICROSOFT ONENOTE



OneNote Algebra 2 - Period 4 Notebook

File Home Insert Draw View Help Open in Desktop App Tell me what you want to do

Calibri Light 20 B I U [Color] [Background Color] [Font Color] [Bulleted List] [Numbered List] [Decrease Indent] [Increase Indent] [Align Left] [Align Center] [Align Right] [Styles] [Tags] [abc] [Mobile] [Feed]

Algebra 2 - Period 4 Notebook

- Welcome
- > _Collaboration Space
- > _Content Library
- Back to School
- Unit 1 - Functions
- Unit 2 - Linear Func...
- Unit 3 - Exponents
- Unit 4 - Logarithms
- Unit 5 - Sequences ...
- Unit 6A - Factoring ...
- Unit 6B - Parabolas
- Unit 7 - Transforma...
- Unit 8 - Square Roo...
- Quarter 2 Test
- Unit 9 - Complex N...
- Unit 10A - Polynmi...

Untitled Page

Assignment Sheet

Monday, January 24, 2022 4:29 PM

Polynomi... Part-1

Course: Algebra 2

Unit 10A: Polynomial & Rational Functions

Date	Topic	Homework
2/7	Power Functions	Homework #1
2/8	Graphs and Zeroes of a Polynomial	Homework #2
2/9	Creating Polynomial Equations	Homework #3
2/10	Polynomial Identities	Homework #4

MICROSOFT ONENOTE



Exercise #4: Simplify each of the following rational expressions.

(a) $\frac{x^2 + 5x - 14}{x^2 - 4}$ *Tri DOTS*

$$\frac{(x+7)(x-2)}{(x+2)(x-2)}$$
$$\frac{x+7}{x+2}$$

(b) $\frac{4x^2 - 1}{10x - 5}$ *DOTS GCF*

$$\frac{(2x-1)(2x+1)}{5(2x-1)}$$
$$\frac{2x+1}{5}$$

(c) $\frac{3x^2 + 14x + 8}{x^2 - 16}$ *$3x^2 + 14x + 8$ $x^2 - 16$*

$$\frac{(3x+2)(x+4)}{(x+4)(x-4)}$$
$$\frac{(3x+2)}{x-4}$$

A special type of simplifying occurs whenever expressions of the form $(x - y)$ and $(y - x)$ are involved.

Exercise #5: Simplify each of the following fractions.

(a) $\frac{9-6}{6-9} = \frac{3}{-3} = -1$

(b) $\frac{15-3}{3-15} = \frac{12}{-12} = -1$

(c) $\frac{a-b}{b-a} = -1$

Exercise #6: Which of the following is equivalent to $\frac{2x-10}{25-x^2}$?

$$\frac{2(x-5)}{(5-x)(5+x)} = \frac{-2}{5+x}$$

(1) $\frac{-2}{x+5}$

(3) $\frac{x+5}{2}$

(2) $\frac{2-x}{5}$

(4) $\frac{2}{x-5}$

Exercise #7: Which of the following is equivalent to $\frac{x^2 - 6x + 9}{18 - 6x}$?

$$\frac{(x-3)(x+3)}{6(3-x)}$$

(1) $\frac{-x-3}{6}$

(3) $\frac{x+3}{9}$













(2) $\frac{x-3}{6}$

(4) $\frac{3-x}{6}$

- Activity
- Chat
- Teams
- Assignments
- Calendar
- Calls
- Files

Teams

Your teams

 P3 AP US History	 Freshmen Mentors 2021-2022	 AP Chemistry Period 1/2	 APR - Per 9	 APL - Per 8	 Spanish 4 Pre-AP period 7	 935 1 Chorale
 VB Tryouts	 PE Period 1B	 331 4 Pre-Calculus H 21- 22	 Varsity Fall 2021	 Seaford Softball 2022		

Hidden teams



All teams



P3 AP US History

- Class Notebook
- Assignments
- Grades

Channels

General

1 hidden channel

Posts

[View assignment](#)

Reply

January 28, 2022



Assignments 1/28, 8:58 AM

Document Progressive Review

Due Jan 28

[View assignment](#)

Reply

February 7, 2022



Jenna Davis 2/7, 9:43 AM

EXAM FRIDAY



Progressivism + Imperialism

- Homework questions (yellow handout) due Friday!
- Optional Study Guides (blue packets)
- WHAT TO KNOW attached



What to know for the Exam.pdf
P3 AP US History >General



Reply

[New conversation](#)



< All teams



P3 AP US History



Class Notebook

Assignments

Grades

Channels

General

1 hidden channel



Assignments

< Back

Causes of the Revolution

Due September 20, 2021 11:59 PM

Instructions

Use the "sources" handout to help you answer the questions.

Reference materials



4 Critical Thinking Origin of the American Revolution Sources.pdf



My work



HW Causes of the Revolution.docx



Working on opening in edit mode... Please refresh and try again.

Attach New

Feedback
good job!

Points
12 / 12

SEESAW: MULTI-FACETED TOOL FOR K - 2

Seesaw



SEESAW: MULTI-FACETED TOOL FOR K - 2

TL Tom Lynch 33
Administrator - District

Activities

11 responses waiting for teacher approval

Review



Contractions 2

1. Circle the contraction in each row.
2. Write the two words that form the contraction on the line.

1 Response, 11 Waiting for Approval, 0 Drafts, 9 Not Responded

+ Add Response

Assigned on Feb 15 at 08:09 AM

Assigned to All Students in Mrs. Fiederlein 2-3

Template attached

7 responses waiting for teacher approval

Review



February Virtual Library



1. Click a  to choose a book (or two or three) to listen to.
2. Complete the Listening Response on the second page.

0 Responses, 7 Waiting for Approval, 0 Drafts, 14 Not Responded

+ Add Response

Assigned on Feb 14 at 09:00 AM

+ Add



Mrs. Fiederlein 2-3

Administrator

Journal Activities Inbox Progress

Assigned to Class

Scheduled

Archived

Calendar

Need ideas for today?

Browse Activity Library

SEESAW: MULTI-FACETED TOOL FOR K - 2

1 Response, 11 Waiting for Approval, 0 Drafts, 9 Not Responded

Assigned on Feb 15 at 08:09 AM

Assigned to All Students in Mrs. Fiederlein 2-3

Template attached

1. are not	(are not aren't)	2. _____
4. they will	(they'll theyw'll)	4. _____
5. you will	(you'll theyw'll)	5. _____
6. have not	(have'nt haven't)	6. _____
7. would not	(wouldn't would'nt)	7. _____

Sample Student

Waiting for Approval

1. you will	(you'll theyw'll)	5. you will
4. have not	(have'nt haven't)	6. have not
2. would not	(wouldn't would'nt)	3. would not
4. he will	(he'll theyw'll)	6. he will
6. did not	(didn't didn't)	6. did not

Waiting for Approval

1. you will	(you'll theyw'll)	5. you will
4. have not	(have'nt haven't)	6. have not
2. would not	(wouldn't would'nt)	3. would not
4. he will	(he'll theyw'll)	6. he will
6. did not	(didn't didn't)	6. did not

Handwritten student response:

- you will
- have not
- would not
- he will
- did not

Waiting for Approval

1. you will	(you'll theyw'll)	5. you will
4. have not	(have'nt haven't)	6. have not
2. would not	(wouldn't would'nt)	3. would not
4. he will	(he'll theyw'll)	6. he will
6. did not	(didn't didn't)	6. did not

Waiting for Approval

1. you will	(you'll theyw'll)	5. you will
4. have not	(have'nt haven't)	6. have not
2. would not	(wouldn't would'nt)	3. would not
4. he will	(he'll theyw'll)	6. he will
6. did not	(didn't didn't)	6. did not

Waiting for Approval

1. you will	(you'll theyw'll)	5. you will
4. have not	(have'nt haven't)	6. have not
2. would not	(wouldn't would'nt)	3. would not
4. he will	(he'll theyw'll)	6. he will
6. did not	(didn't didn't)	6. did not

Handwritten student response:

- you will
- have not
- would not
- he will
- did not

Waiting for Approval

1. you will	(you'll theyw'll)	5. you will
4. have not	(have'nt haven't)	6. have not
2. would not	(wouldn't would'nt)	3. would not
4. he will	(he'll theyw'll)	6. he will
6. did not	(didn't didn't)	6. did not

Waiting for Approval

1. you will	(you'll theyw'll)	5. you will
4. have not	(have'nt haven't)	6. have not
2. would not	(wouldn't would'nt)	3. would not
4. he will	(he'll theyw'll)	6. he will
6. did not	(didn't didn't)	6. did not

Waiting for Approval

1. you will	(you'll theyw'll)	5. you will
4. have not	(have'nt haven't)	6. have not
2. would not	(wouldn't would'nt)	3. would not
4. he will	(he'll theyw'll)	6. he will
6. did not	(didn't didn't)	6. did not

REVITALIZING TRADITIONAL TECHNOLOGY AND ART

Students can now use advanced software and machinery to create items in virtual space (Computer Aided Design) and produce them either on a 3-D printer or a computer-controlled machine.

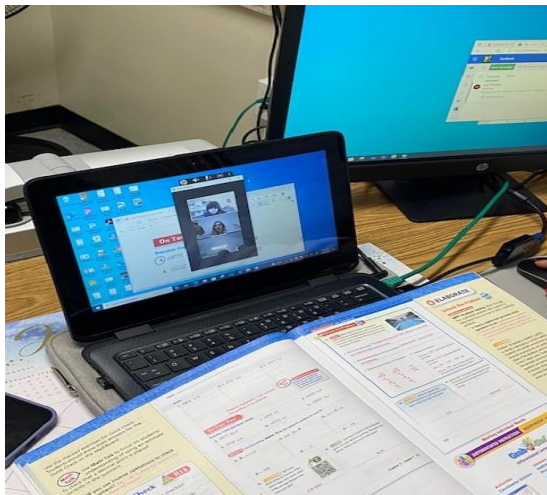
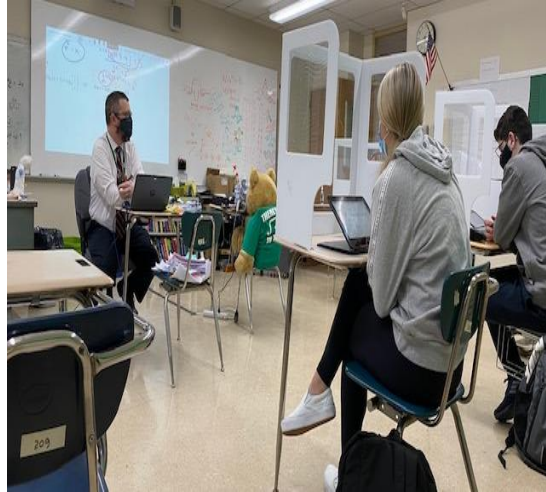
3-D Printing at MS



Computer Numerical Control (CNC) Machine at HS



SUCCESSFULLY LIVESTREAMED CLASSES IN ALL SCHOOLS AND SET UP REMOTE EDUCATION



SUCCESSFULLY LIVESTREAMED SPORTING EVENTS, CONCERTS, INFORMATIONAL SESSIONS, BACK TO SCHOOL NIGHTS AND BOE MEETINGS

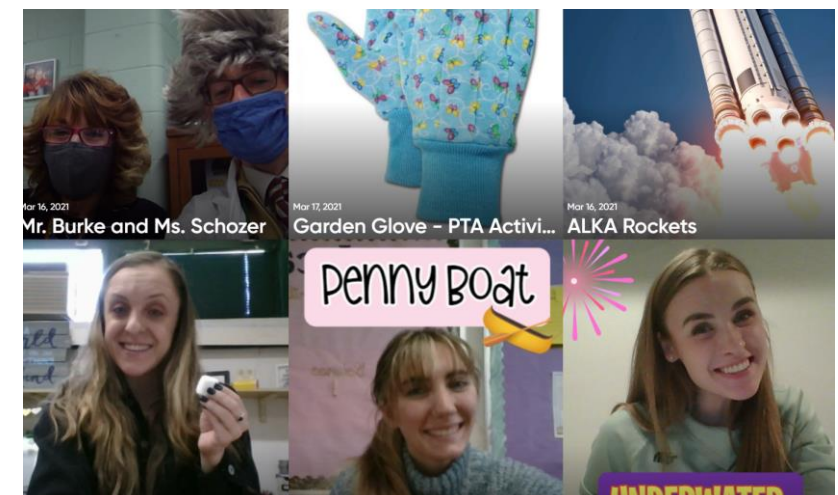
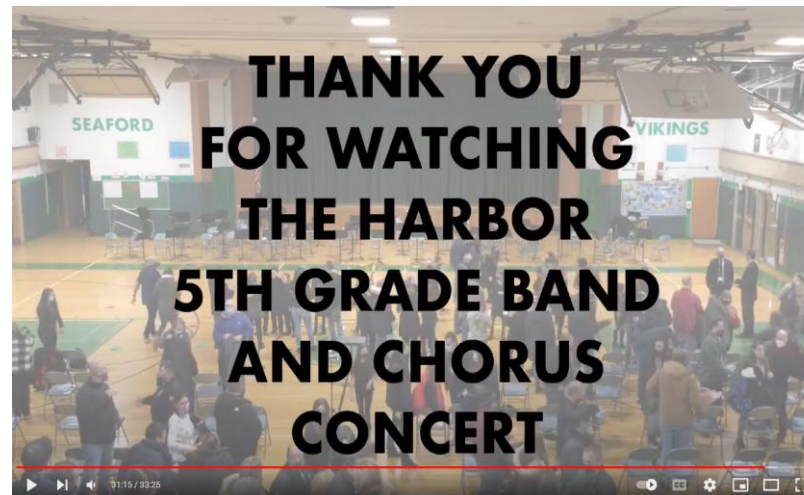


VIRTUAL *Seaford High School*
5TH ANNUAL CURRICULUM FAIR
Thursday, February 17

CLICK ON EACH LINK BELOW TO LEARN ABOUT THE MANY OPTIONS AVAILABLE AS YOU DEVELOP YOUR 2022-2023 PROGRAMS!

6pm: AP Capstone Info Session
6:30pm: NEW SHS Opportunities/Q & A with the Principals
Followed by: More Departmental Q & A Breakout Sessions

View anytime - Library	7:15-8pm: Social Studies
7-8pm: Math/Business/Computers Science & Technology Music	7:30-8pm: World Languages/NYS Seal of Biliteracy Password: Z50qKq English
7:15-7:45pm: Art	



WHAT IS NEXT FOR SEAFORD SCHOOLS?



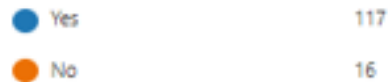
THE TECHNOLOGY STEERING COMMITTEE

The Technology Steering Committee is made up of teachers and administrators from across the District and is essential in planning our next steps. The committee is focused on the following three areas: Software, Devices and Support. A survey was developed to gather information from the staff about these topics and the data will be used in future decision making.

One of the questions from the survey

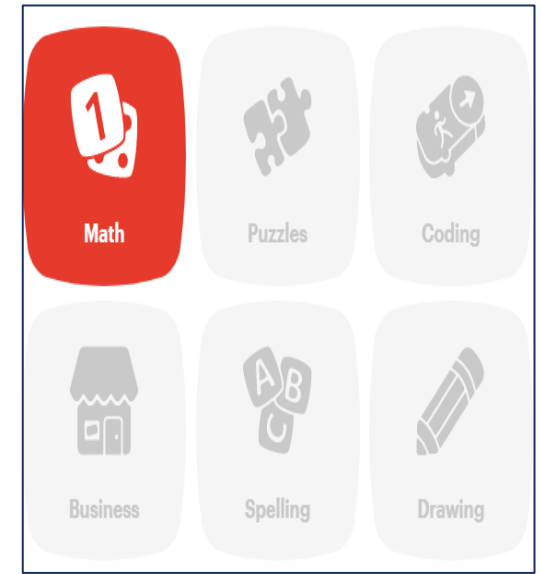
Do you feel that the device (iPad K - 2, Laptop 3 - 12) is appropriate for your students?

[More Details](#)



EXPANDING THE USE OF TECHNOLOGY

Osmo merges tactile exploration with technology which provides an additional aspect of iPad use for students in the K – 2 program. Core learning skills from math to reading are enhanced with this engaging product.



EXPANDING THE USE OF TECHNOLOGY

The laser engraver will allow students to take an idea visualized in CAD and create a finished project in wood.




EXPANDING THE USE OF TECHNOLOGY



Students will use high-end computers with advanced graphic cards to edit digital photos to create new works using Photoshop, Illustrator, InDesign, Premiere Pro, After Effects, Lightroom, Acrobat, and XD.



With Envisioneer, students focus on design and construction ideas rather than learning complicated CAD programming. Students can focus on being creative while applying sound building and design principles to projects.

A photograph of a winding asphalt road through a hilly, grassy landscape. The road curves from the foreground towards the background, disappearing into the distance. A small cartoon character on a motorcycle is positioned at the top of the road, appearing to be riding away. The landscape is characterized by rolling hills and fields of dry, golden-brown grass. The sky is clear and blue. At the top of the image, there are three horizontal bars in shades of blue and grey.

We have come a long way thanks to the support of the community, BOE, administrators, teachers and students.

THANK YOU