Instructional Technology

BOE Presentation 1/20/2021 Mr. Fred Kaden Mr. Thomas Lynch



Presentation Outline

- Student Devices
- Tech Support
- Smart Schools Wiring
- Infrastructure
- SAMR Model, Instruction and Examples
- Supports
- Looking Ahead





iPads

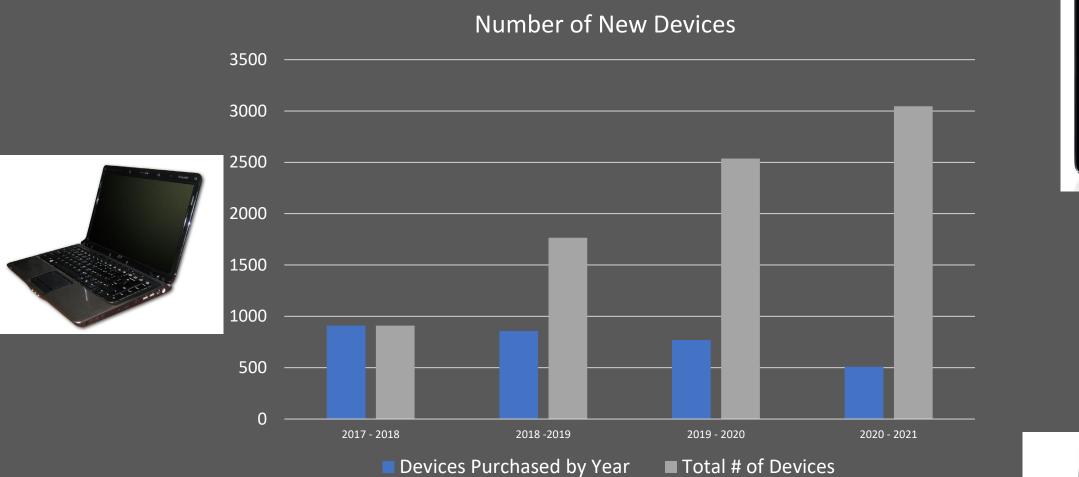
Every student in grades K - 2 has their own individual iPad

Laptops

Every student, grades 3 – 12, has their own individual laptop.

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Paradigm Shift in Instruction and Technology





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

Support

Each building has a Tech Depot that is staffed by a computer technician.

These technicians support teachers, students, administrators and parents with software and hardware issues.

On average, our techs handle 60 support requests from staff and students daily.





Smart Schools Wiring

The rewiring of the district (with CAT 6A) will allow for more capacity at faster speeds.

Smart Schools Wiring

By color coding both the cables and drops as well as proper labeling, any issues can be taken care of expeditiously.

Example: Wireless access points are purple and data drops are blue.



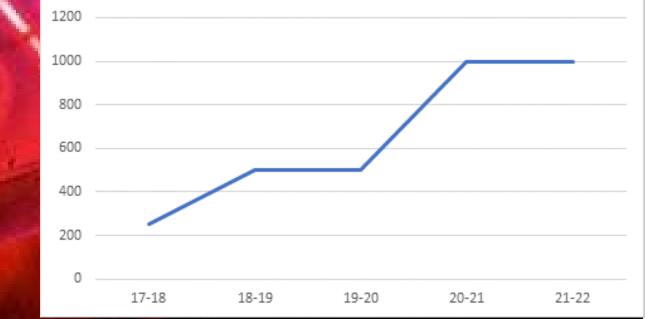
Infrastructure



The new infrastructure allows us more capacity and higher throughput. The more users there are the greater the need. The new devices are more energy friendly and generate less heat.

Internet Bandwidth

Internet Bandwidth in MB



As the number of devices increases so does the need for higher internet bandwidth.

Phones

Mia does not have a houseton

Spell Out

I have 2 cats.

Lowercase

Insert Work

Derek likes to take walks.

Abby's cat is named Frisky.

her dog.

pets better?

Capitalize

luan's cat is named banjo.

Delete or Take Out

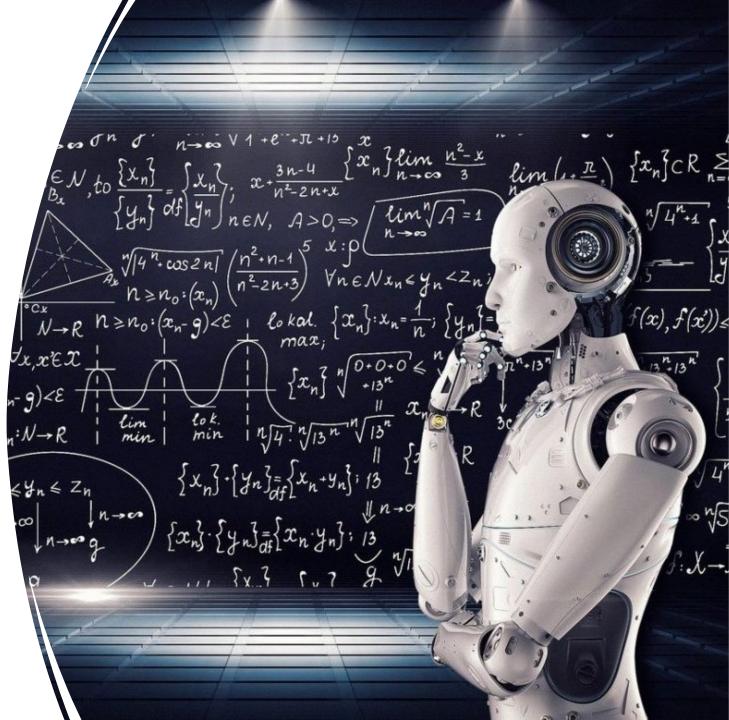
unda doesn't have any pets.

UNIFY

In the 20-21 School year, buildings have had to make office spaces in order to conduct business and communicate. These office spaces have required the use of additional phones.

Future

- Seaford is always planning and preparing for what lies ahead.
- The focus for the next couple of years, starting with the 2022 - 2023 school year and onward, older/obsolete devices will be phased out and be refreshed with newer ones.
- The next slide provides an example.



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	11th
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Putting Seaford's Technology to Use



The SAMR Model Shifts the Use of Technology in Instruction



Dr. Ruben R. Puentedura

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SUBSTITUTION

Technology acts as a direct substitute, with no functional change

ENHANCEMENT

TRANSFORMATION

AUGMENTATION

Technology acts as a direct substitute, with functional improvement

M

MODIFICATION

Technology allows for significant task redesign

REDEFINITION

Technology allows for the creation of new tasks, previously inconceivable

Uniformity of Platforms

<u>Kindergarten – Second Grade</u>

- Student Device: iPad
- Instructional Software: Seesaw
- Remote Instruction: Zoom

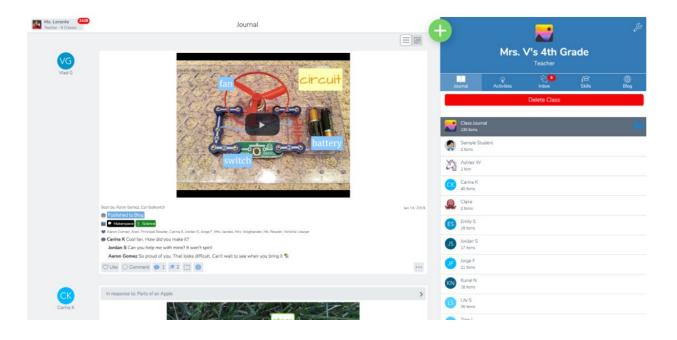
<u>Third Grade – Twelve Grade</u>

- Student Device: Laptop
- Instructional Software: TEAMS
- Remote Instruction: TEAMS









Post To Student Journal

Note



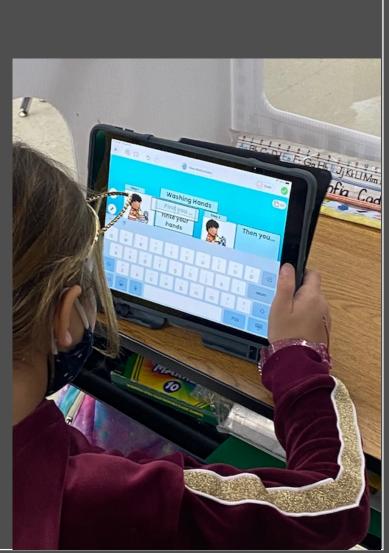


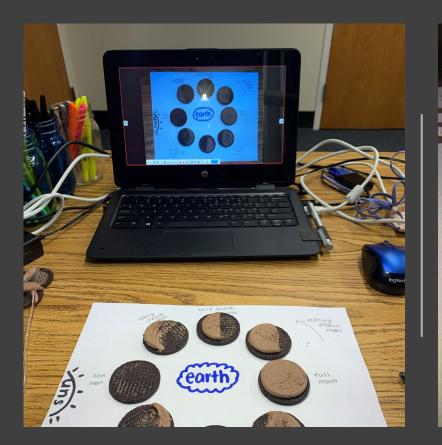




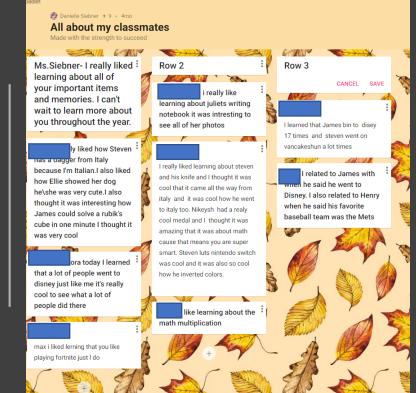
Seesaw works on not only the District-issued iPads but on any computer or mobile device.

Over the past week, K – 2 teachers and students have made over 1600 postings.





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	← Reply		you t
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1			nas a c
КК	Kacy Kaiser 1/6 12:41 PM		becaus how El
0	Persuasive Writing!		he\she
	A good writer uses OREO!		though
			James cube in
	O- Opinion, here is where you state your opinion. R-Reason, here is where you explain your reason for your opinion.		was ve
	E- Explanation, here is where you give 3 or more examples why you	feel this way.	
	O- Restate your opinion.		
	See less		that a disney
		and the second second	cool to
	- Collapse all		people
	BCatalano 1/6 2:51 PM		
			max i li
	Licko Brita Chines		playing
	the car you have a		-
	Transformer Para Las		



Teams: Elementary Level





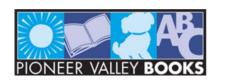




Teams: Secondary Level

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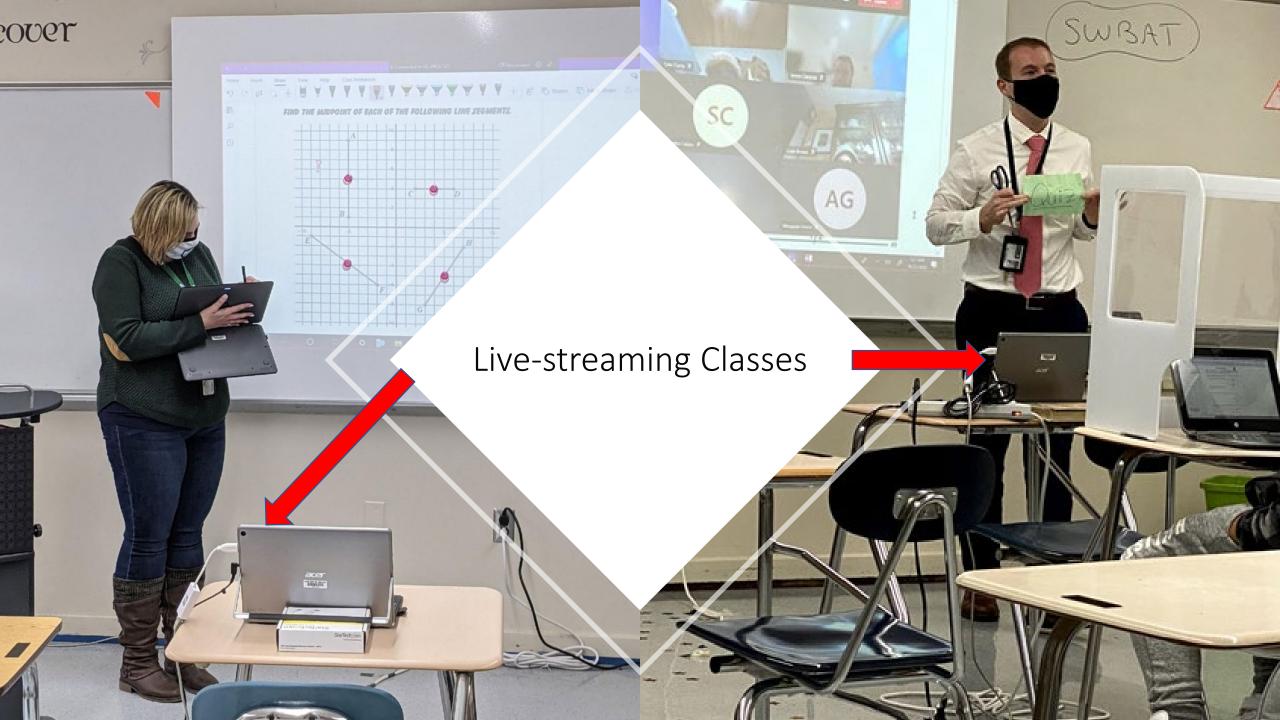








Instructional Software: New for 2020 - 2021



Remote Educators: K - 2

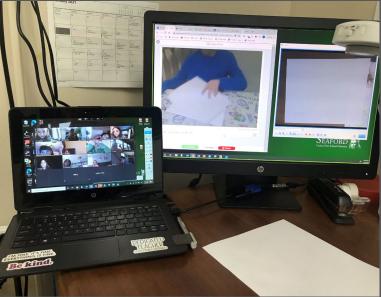




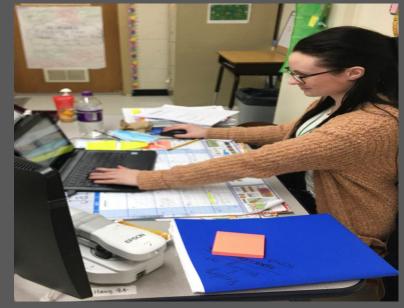


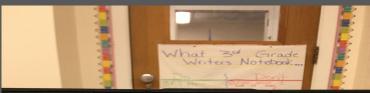






Remote Educators: 3 - 5











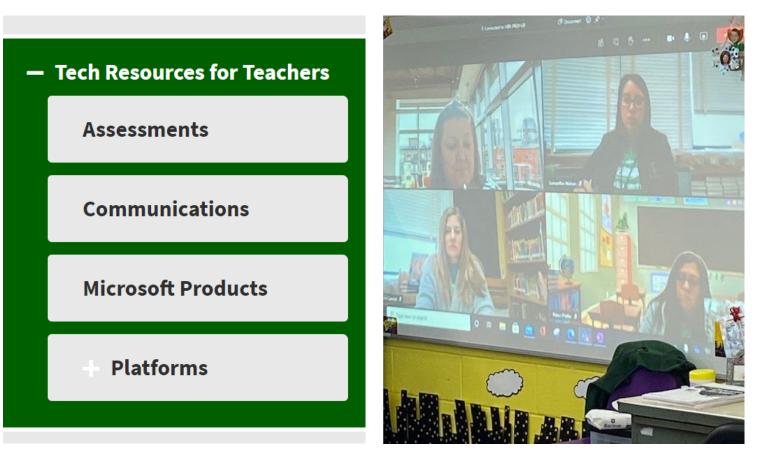






Supporting Teachers, Parents and Students

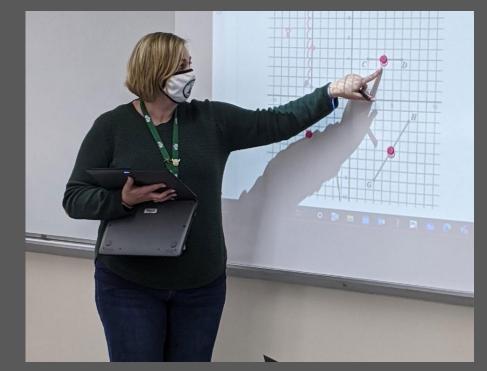
Supporting Teachers



To succeed in the new learning environment, teachers have made use of the following:

- Model School Days (45+ in the last 12 months)
- Training by District personnel (45+ in the last 12 months)
- Training by colleagues (ongoing)
- Working with our District Technicians and Mentors (ongoing)

In addition, with the help of Ms. McCloskey, a website resource has been created for teacher reference.









Computer Mentors

Supporting Parents

To help parents with both in school and remote learners, the following support have been put in place:

- Ask a *Tech Parent* via Microsoft Teams for elementary issues
- District Website for Parent Technology Resources
- Access to our District Technicians and the Technology Office



< All teams	General Posts Files Staff Notebook +	et 🗸
Tech Parents	Hello, My son's video isn't working on Microsoft teams, wondering if anybody has any tips to try and troubleshoot? March Transforme See more View original email	
General		
Seesaw Tech Parents	Hi sorry you're having trouble. This happened to my daughter just yesterday too. I would try a few things- first check	
Teams Tech Parents	that your settings allows use of the camera. If that is on, try signing out and back in (restarting the browser). You may need to restart it once or twice (that did the trick for us). If it's still not working, check that your internet signal is strong (sometimes video capabilities are limited if internet is unstable). Lastly, you may need to reboot the computer if none of the earlier options are working. Hopefully that each us the issue that us be used.	

Supporting Students

- Many teachers have been able to provide 'on the spot' support for their students
- Student training by District personnel
- Computer technicians
- Student technicians





Photo taken September 2019

Looking Ahead...





Budgetary Considerations 2021 – 2022 and Next Steps

- Finalizing the second phase of updating the District Infrastructure
- Continuing to replace SmartBoards with Epson Projectors
- Continuing Model School Days for professional development
- Reconvening of the Technology Steering Committee in 2021 2022 to evaluate current systems and explore future devices for faculty and students
- Starting in 2022 2023, the district will beginning replacing devices that were initially distributed in 2017 2018 and will follow a replacement schedule for subsequent years