

Bernards Township School District

Student Device Proposal

June 14, 2021



What brings us here?

- Updating long term technology plan as a district goal
- Preparing to return to 100% in-person instruction
 - *Lessons learned during the pandemic*
 - *What tools are available for instruction in the fall?*
- District's history in student devices:
 - BYOD
 - ~3,000 Chromebooks for 4870 Students
- *ARP/ESSR - III Grant Opportunity*

Administrative recommendation for student device access K-12

| Grade Band | Proposed Device Plan |
|------------|---|
| K-2 | 15 touchscreen chromebook devices per classroom, stored in Tech Tubs |
| 3-5 | 25* touchscreen chromebook devices per classroom, stored in chromebook cart |
| 6-12 | 1:1, students issued device to bring back and forth to school |

*These numbers are estimates based upon current enrollment projections

Benefits of this student device proposal

- Providing equitable access to technology for all students
- Securing the computing environment by managing, monitoring and updating devices remotely
- Facilitating a more efficient use of staff and resources
- Increasing district preparedness for standardized assessments

Benefits of this student device proposal, continued

- Communication and Collaboration
- Enhances and expands instructional opportunities and strategies
- Facilitates more assessment and feedback techniques
- Meeting 21st century goals and needs
- Emergency response for unforeseen circumstances should students need to take a device home

Grades K-5

What would this look like?



Communication Tool: Seesaw (K-2)

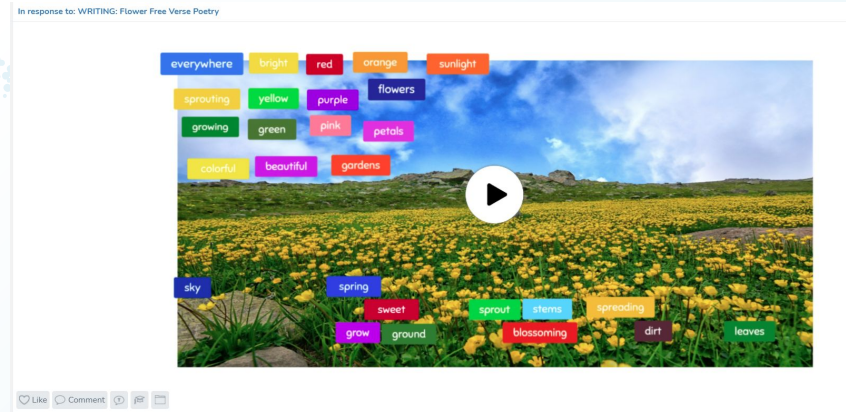
- To engage and empower our students' opportunities to use technology meaningfully
- To enhance our teachers capability to monitor individual pupil progress and provide unique feedback
- To support positive home-school connections

Seesaw example

In this 1st grade example, students arranged words from a word bank to create a poem and then made an audio recording of themselves reading that poem.

Students have always been able to copy words from a word bank to make a poem but access to technology:

- Enabled the teacher to hear each student “perform” their poem
- Enhanced the lesson with a reading & speaking component to what would otherwise be a traditional writing prompt
- Added a new level to this lesson where students developed 21st century skills by manipulating electronic resources



Grades 6-8

What would this look like?



Instructional Tool: Nearpod

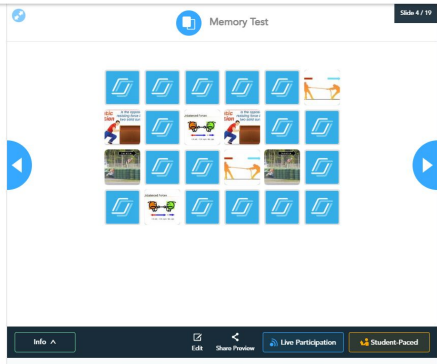
nearpod



Moving beyond taking notes as a class from the whiteboard:

- These clips are from a 6th grade student-paced lesson
- ***In the top image:*** students watch a short clip that explains a key concept
- Students can watch the clip multiple times or go back to previous slides at their own pace
- ***In the second image:*** students complete a brief assessment to spot check for understanding

nearpod



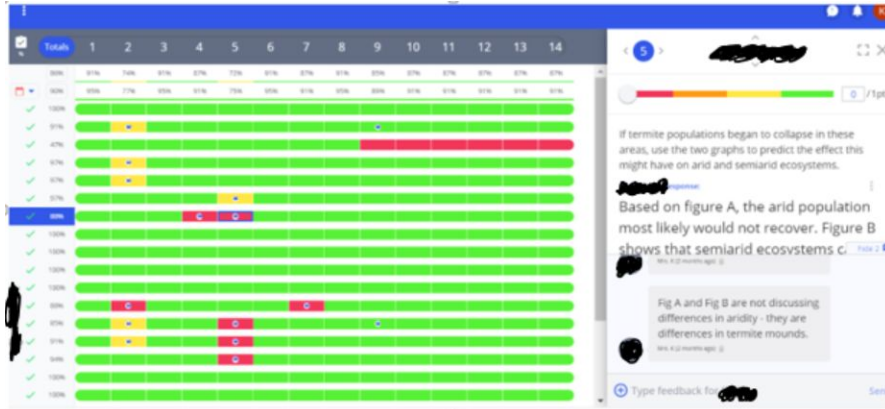
Grades 9-12

What would this look like?



GoFormative - Assessment Tool

This screenshot is taken from a teacher's admin dashboard for a single assignment



- Lesson 1: Teacher administers non-graded assignment
- Student work is scored; feedback provided
- Lesson 2: Students are grouped based upon assignment data; each group receives modified work to target needs identified in lesson 1

Chromebook purchase

Administration recommendation for student device access K-12

| Grade Band | Proposed Device Plan | Number of chromebooks needed* | Number of chromebooks needed to purchase* |
|------------|---|-------------------------------|---|
| K-2 | 15 touchscreen chromebook devices per classroom, stored in Tech Tubs | 600 | None |
| 3-5 | 25* touchscreen chromebook devices per classroom, stored in chromebook cart | 1300 | 1050 |
| 6-12 | 1:1, students issued device to bring back and forth to school | 2911 | 751 |

*These numbers are estimates based upon current enrollment projections

Estimated Budget

| Budget Item | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27 Refresh |
|---|-----------|----------|----------|----------|----------|--------------------|
| Devices, Carts, Cords | \$550,000 | 0 | 0 | 0 | 0 | \$1,250,000 |
| Annual Maintenance (parts, LCD, keyboards, system boards, chargers, etc) | \$10,000 | \$15,000 | \$15,000 | \$20,000 | \$20,000 | \$10,000 |
| Labor (1 Tech Staff) | \$20,000 | \$45,000 | \$46,000 | \$47,000 | \$48,000 | \$49,000 |

Resources

Comparable Districts with 1:1 Programs

| | |
|-----------------------------|---------------------------------|
| Berkeley Heights | Pascack Valley |
| Freehold Regional | Princeton |
| Glen Ridge Boro | Ramapo- Indian Hills |
| Glen Rock Boro | Ridgewood Village |
| Haddonfield Boro | River Dell Regional |
| Hillsborough | Rutherford Boro |
| Hopewell Valley | School District of the Chathams |
| Livingston Township | Sparta Township |
| Millburn | West Windsor Plainsboro |
| Northern Highlands Regional | Westfield |

Previous Presentations

- March 27, 2017
- Sept. 25, 2017
- Nov. 27, 2017
- Feb 12, 2018