WSD Curriculum Committee

March 18, 2021:
Addressing Learning Loss,
& Technology to Support Learning

Jonathan S. Budd, Ph.D., Superintendent
Analisa Sherman, Principal
James Crawford, Technology Coordinator

Overview

- Addressing Learning Loss
- Discussion by Board Members (anticipated 30 mins.)

- Technology to Support Learning
- Discussion by Board Members (anticipated 30 mins.)

Addressing Learning Loss

Discussed at February 2021 Curriculum Cmte. Meeting

- Significant focus of ESSER II funding will be “addressing learning loss among students”
    - Summer and/or after-school learning programs, perhaps in collaboration with others
- “Learning loss among students” is predictable based upon the current COVID-19 pandemic
- “Learning loss among students” requires data analysis at both the group and the individual student level

Data Analysis Process

- In-house data team (Principal, Special Services Director, Interventionist) identified key data sources, reviewed assessments, extracted data, analyzed trends, reflected on relationships between assessments & overall instructional program
- District & school leadership team reviewed conclusions to determine summer programming needs and parameters

Sources of Data Analyzed

- Literacy
  - Teachers College Reading Assessments
  - STAR Reading Assessments
  - Lexia Assessments
- Mathematics
  - STAR Math Assessments
  - Symphony Math Assessments

Literacy: Key Assessments & Considerations

- Teachers College assessments:
  - Fluency, accuracy and comprehension
  - Upper grades: students are required to write their responses
  - Administered individually by teachers
  - Fall 2021 challenging due to last administration timeline having been Winter 2020
- STAR Reading:
  - Multiple-choice, short passages
  - Computer-based, adaptive
  - Students who move quickly through the assessment might have impacted scores

Teachers College Data: Sample

Grade	Fall 2019		Winter 2020		Fall 2020		Winter 2021	
	Below	At/Above	Below	At/Above	Below	At/Above	Below	At/Above
1	13%	87%	31%	69%				
2					45%	55%	34%	66%

Note: % is in relation to grade-level benchmark, which advances in difficulty each year.

Teachers College Data: Grades K-3

Grade	Fall 2019		Winter 2020		Fall 2020		Winter 2021	
	Below	At/Above	Below	At/Above	Below	At/Above	Below	At/Above
K	n/a	n/a	7%	93%	n/a	n/a	4%	96%
1	13%	87%	31%	69%	25%	75%	46%	54%
2	42%	58%	27%	73%	45%	55%	34%	66%
3	24%	76%	30%	70%	43%	57%	45%	55%

Teachers College Data: Grades 1-3

Grade	Fall 2019		Winter 2020		Fall 2020		Winter 2021	
	Below	At/Above	Below	At/Above	Below	At/Above	Below	At/Above
K	n/a	n/a	7%	93%	n/a	n/a	4%	96%
1	13%	87%	31%	69%	25%	75%	46%	54%
2	42%	58%	27%	73%	45%	55%	34%	66%
3	24%	76%	30%	70%	43%	57%	45%	55%

Teachers College Data: Grades 4-6

Grade	Fall 2019		Winter 2020		Fall 2020		Winter 2021	
	Below	At/Above	Below	At/Above	Below	At/Above	Below	At/Above
4	22%	77%	32%	68%	36%	64%	48%	53%
5	28%	72%	48%	52%	66%	34%	77%	23%
6	28%	72%	32%	68%	57%	43%	47%	53%

Teachers College Data: Grades 4-6

Grade	Fall 2019		Winter 2020		Fall 2020		Winter 2021	
	Below	At/Above	Below	At/Above	Below	At/Above	Below	At/Above
4	22%	77%	32%	68%	36%	64%	48%	53%
5	28%	72%	48%	52%	66%	34%	77%	23%
6	28%	72%	32%	68%	57%	43%	47%	53%

Literacy: Initial Conclusions

- Some students at all grade levels seem to have experienced learning loss in literacy
    - Current grades 3-5, & current grade 1 are noteworthy

STAR Reading: Grades 2-5

Data: number/% at/above 50th percentile

	January 2020	January 2021
2	75 / 66%	77 / 72%
3	71 / 66%	82 / 67%
4	90 / 79%	78 / 72%
5	92 / 74%	86 / 69%

STAR Reading: Grades 2-5

Data: number/% at/above 50th percentile

	January 2020	January 2021
2	75 / 66%	77 / 72%
3	71 / 66%	82 / 67%
4	90 / 79%	78 / 72%
5	92 / 74%	86 / 69%

Literacy: Additional Conclusions

- Some students at all grade levels seem to have experienced learning loss in literacy
    - Current grades 3-5, & current grade 1 are noteworthy
- STAR Reading highlights current grades 4-5

Lexia: Current Data, Grades K-5

	Start In/Above Grade level	Current In/Above Grade level
K	90%	97%
1	66%	80%
2	62%	73%
3	35%	50%
4	37%	46%
5	48%	51%
Total	55%	65%

Lexia: Current Data, Grades K-5

	Start In/Above Grade level	Current In/Above Grade level
K	90%	97%
1	66%	80%
2	62%	73%
3	35%	50%
4	37%	46%
5	48%	51%
Total	55%	65%

Literacy: Additional Conclusions, & Summary

- Some students at all grade levels seem to have experienced learning loss in literacy
    - Current grades 3-5, & current grade 1 are noteworthy
- STAR Reading highlights current grades 4-5
- Lexia highlights current grades 4-5

- **<u>In Summary</u>: Grades 1, 4, & 5 merit our particular attention**

Math: Considerations

- STAR Math:
  - Computer-based, adaptive test
  - Audio-enabled up to grade 2
- Symphony Math:
  - Anecdotal reports from teachers indicate that progress in school doesn't match Symphony Math levels
  - Usage requirements not met at all grade levels

STAR Math: Grades 1-6

Data: number/ % at/above 50th percentile

	January 2020	January 2021
1	75 / 78%	73 / 79%
2	72 / 62%	71 / 66%
3	75 / 70%	82 / 67%
4	97 / 85%	94 / 77%
5	98 / 78%	98 / 79%
6		100 / 77%

STAR Math: Grades 1-6

Data: number/ % at/above 50th percentile

	January 2020	January 2021
1	75 / 78%	73 / 79%
2	72 / 62%	71 / 66%
3	75 / 70%	82 / 67%
4	97 / 85%	94 / 77%
5	98 / 78%	98 / 79%
6		100 / 77%

Math: Initial Conclusions

- Some students at all grade levels seem to have learning loss in mathematics
    - Current grades 2 & 4 are noteworthy

Symphony Math: Grades K-5

	On Grade Level	Above Grade Level
K	88%	13%
1	41%	4%
2	25%	11%
3	15%	10%
4	38%	21%
5	15%	
Totals	30%	8%

Symphony Math: Grades K-5

	On Grade Level	Above Grade Level
K	88%	13%
1	41%	4%
2	25%	11%
3	15%	10%
4	38%	21%
5	15%	
Totals	30%	8%

Math: Additional Conclusions, & Summary

- Some students at all grade levels seem to have learning loss in mathematics
    - Current grades 2 & 4 are noteworthy
- Symphony Math highlights grades 2 and 3

- **<u>In Summary</u>: Grades 2, 3, & 4 merit our particular attention**

Planning for Summer Programming

- Summer programming in literacy & mathematics will be provided for students in current grades K-5
- Summer programming in literacy & mathematics will be expanded for students in particular grades
    - Literacy: Current grades 1, 4, & 5
    - Mathematics: Current grades 2, 3, & 4
- Summer programming in literacy & mathematics will have as its goal to *reduce* identified learning loss and the usual “summer slide”
- Summer programming in literacy & mathematics will be invitational to students for whom 2 or more data points suggest learning loss, as well as based upon request for individual student review

Parameters of Summer Programming

- Summer programming will be provided by qualified individuals (e.g., certified teachers) based upon key grade-level objectives
- Summer programming will include small-group or individual settings as appropriate
- Summer programming will include in-person and virtual options for students as appropriate
- Summer programming will include pre- and post-assessment data, and reports to parents/guardians
- Summer programming will include fun!

- Additional work in Fall 2021 will continue to address learning loss, and, for students who have participated in the summer, will be based upon summer performance & data analysis; SRBI process will also include such data analysis

Next Steps

- District administration will provide needs assessment to CSDE as part of ESSER II grant application
- School administration will develop specific timeline for programming and communication to parents/guardians to solicit interest
- Report to be provided to Board of Education at April meeting

Technology to Support Learning

ISTE Standards For Students

(International Society for Technology in Education 2016; adopted by CSDE 2018)

- **Innovative Designer:** Students use a variety of technologies within a design process to identify and solve problems by creating new, useful, or imaginative solutions.
- **Creative Communicator:** Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats, and digital media appropriate to their goals.
- **Knowledge Constructor:** Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts, and make meaningful learning experiences for themselves and others.
- **Computational Thinker:** Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.
- **Digital Citizen:** Students recognize the rights, responsibilities and opportunities of living, learning, and working in an interconnected digital world. They act and model in ways that are safe, legal, and ethical.
- **Empowered Learner:** Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.
- **Global Collaborator**: Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

Example of ISTE Standard Matrix

	ID					CC			KC		CT				DC		EL						GC	
Project	**1a**	**1b**	**1c**	**1d**	**1e**	**2a**	**2b**	**2c**	**3a**	**3b**	**4a**	**4b**	**4c**	**4d**	**5a**	**5b**	**6a**	**6b**	**6c**	**6d**	**6e**	**6f**	**7a**	**7b**
ABC Book	x	x	x	x	x	x		x	x		x		x		x	x					x	x	x	x
Coding (Kodable and Code-a-pillar)						x	x			x	x	x	x	x	x	x					x	x	x	x
Lexia			x	x					x		x	x			x	x	x	x	x	x	x	x		
Drawing on the iPad	x	x	x	x	x		x	x	x		x			x	x	x					x	x	x	x
Drawing on the Computer	x	x			x		x	x	x		x				x	x		x	x		x	x		
Intro to Lab. & Rules															x	x						x		x
Using a tablet	x	x	x	x	x		x	x	x		x		x		x	x	x	x	x	x	x	x		x
Using a desktop computer	x	x	x	x	x		x	x	x		x		x		x	x	x	x	x	x	x	x		x

ISTE Standards For Teachers

(International Society for Technology in Education 2016; adopted by CSDE 2018)

- **Learner:** Educators continually improve their practice by learning from and with others and exploring proven and promising practices that leverage technology to improve student learning.
- **Leader:** Educators seek out opportunities for leadership to support student empowerment and success and to improve teaching and learning.
- **Citizen:** Educators inspire students to positively contribute to and responsibly participate in the digital world.
- **Collaborator:** Educators dedicate time to collaborate with both colleagues and students to improve practice, discover and share resources and ideas, and solve problems.
- **Designer:** Educators design authentic, learner-driven activities and environments that recognize and accommodate learner variability.
- **Facilitator:** Educators facilitate learning with technology to support student achievement of the ISTE Standards for Students.
- **Analyst:** Educators understand and use data to drive their instruction and support students in achieving their learning goals.

Beecher Technology Opportunities for Teachers

Technology support opportunities for teachers

- Co-teaching
- Professional Development
  - PD days
  - Grade-level teams
  - One-on-one trainings
- Provide self-directed learning resources
- Additional opportunities provided by both the library staff and STEAM teacher

Technology provided to/available for teachers

- Smartboards
- Document Cameras
- Laptops
- iPads
- iPods
- VR goggles / Google Expeditions

Professional Development on March 19th

Woodbridge School District
Teacher Professional Development
March 19, 2021

Time	Focus	Goal	Note
8:30 – 12:00	**Fostering Active, Deep, Learning* through Technology Integration** Facilitators: Jackie Whiting (CES) & James Crawford	• By engaging with an expert on technology integration, and peers from both across the school and within grade-level teams, each teacher will: (a) celebrate personal & professional growth in technology integration at Beecher over the past year; (b) develop understanding of additional methods to foster active, deep learning through technology integration; and (c) apply one such method (Choice Boards, Station Rotation, or Flipgrid) to an upcoming unit.	If you plan to work from home, please bring with you any materials that would be necessary for planning an upcoming unit.
	* *ISTE (International Society for Technology in Education) Standard for Educators 5b: Educators will design authentic learning activities that align with content-area standards and use digital tools and resources to maximize active, deep learning.*		
12:00 – 1:00	Lunch & Movement Break		
1:00 – 3:30	**Sexual Harassment Prevention Training** Facilitators: Jonathan Budd & Cheryl Kiesel	• By engaging with learning videos and in group discussions, each teacher will gain statutory awareness of Connecticut's laws related to sexual harassment, as well as Woodbridge's relevant policies and procedures.	

"We cannot become what we need to be by remaining what we are."
~ Max DePree

Learning and Teaching Practices Survey

The survey was designed in partnership with education researchers at SRI (formerly known as the Stanford Research Institute). This 15-minute teacher survey will provide insights into learning and teaching practices related to technology at our school

This survey will ask questions on the following topics:

- Teacher perception of technology
- Teacher sense of preparation for using technology
- Teacher professional learning goals
- Student practices using technology
- Types of student learning products produced with technology tools

Survey responses will be shared with the District PDEC (Professional Development & Evaluation Committee) for planning for 2021-22 & beyond, and also with the Board of Education.