REPORT TO:	☐ **Administrative Council** ☐ **Program and School Services Advisory Committee** ☐ **Policy Working Committee** ☐ **Planning and Priorities Advisory Committee** ☒ **Board** ☐ **Other:**
	For Board Meetings: ☒ **PUBLIC** ☐ **IN-CAMERA**
TITLE OF REPORT:	Technology-Enabled Learning for Students
PRESENTED BY: *(list ONLY those attending the meeting)*	Carolyn Glaser, Manager - Information Technology Services Cathy Lynd, Superintendent of Business Tom McLeod, System Principal Sheila Powell, Superintendent of Student Achievement Melanie Stanley, System Principal
PRESENTED FOR:	☐ **Approval** ☐ **Input/Advice** ☒ **Information**
Recommendation(s): *(only required when presented for approval)*	
Purpose:	To share information with the Board of Trustees regarding technology-enabled learning for students. The presentation will provide information related to current areas of focus as well as planning for future work.
Content:	The ongoing need for widespread access to student computing devices in Thames Valley has been a growing concern for a number of years with increased use of the internet and web-based applications for learning and the use digital learning platforms. The Full Remote and Adapted Learning models have created additional needs for educator capacity building and student computing device access. The Chromebook 1:1 Project, which was launched in September 2017, provided students in seven designated secondary schools with individual access to Chromebooks for learning. The Chromebook 1:1 Project provided increased access to technology at these schools and facilitated the embedded use of technology in all courses. The investment in these specific schools for computing devices is significant. With the expectation that all teachers in Thames Valley now have digital learning platforms for their classes, the need for computing technology as an essential tool for learning is equally applicable in all of our schools. This presentation will provide an overview of learning from the Chromebook 1:1 project, describe the status of student computing device inventory in TVDSB and outline technology-related professional learning and resources from Learning Support Services that support all schools. The presentation provides initial next steps for ongoing planning for technology-enabled learning in the board and outlines changes to student computing device distribution in Thames Valley.
Cost/Savings:	
Timeline:	
Communications:	**November 25, 2020** - Communication to Principals of the Chromebook 1:1 schools regarding student computing devices for the 2021-2022 school year.
Appendices:	**Appendix A** – Technology-Enabled Learning for Students Presentation – November 24, 2020

Strategic Priority Area(s):

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Relationships:	☐ Students, families and staff are welcomed, respected and valued as partners. ☐ Promote and build connections to foster mutually respectful communication among students, families, staff and the broader community. ☐ Create opportunities for collaboration and partnerships.
Equity and Diversity:	☒ Create opportunities for equitable access to programs and services for students. ☐ Students and all partners feel heard, valued and supported. ☐ Programs and services embrace the culture and diversity of students and all partners.
Achievement and Well-Being:	☐ More students demonstrate growth and achieve student learning outcomes with a specific focus on numeracy and literacy. ☒ Staff will demonstrate excellence in instructional practices. ☐ Enhance the safety and well-being of students and staff.

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Technology-Enabled Learning for Students

November 24, 2020

Thames Valley District School Board

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Chromebook 1:1 Project

- Started in September 2017, with 7 secondary schools involved:

    Central Elgin CI, College Avenue SS, Glencoe DHS, Saunders SS,

    Sir Frederick Banting SS, West Elgin SS, Westminster SS

- Key goals of the Chromebook 1:1 Project:

  o   Increase ongoing student access to technology in schools

  o   Enhance embedded technology use into daily instructional practice

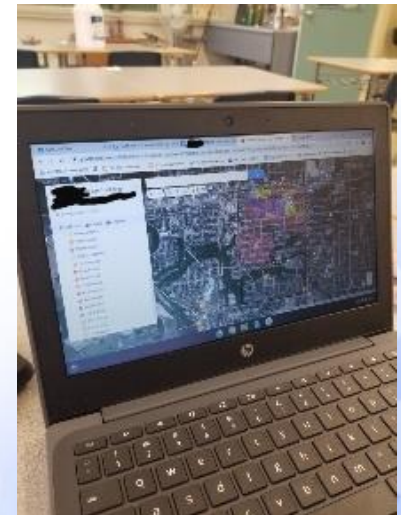 o   Build teacher capacity with the use of digital learning platforms

What we learned from the 1:1 Chromebook Project

- **Students:**
  - Opportunity for increased collaboration, research and fluidity of learning
  - Web-based applications enhance learning and communication skills
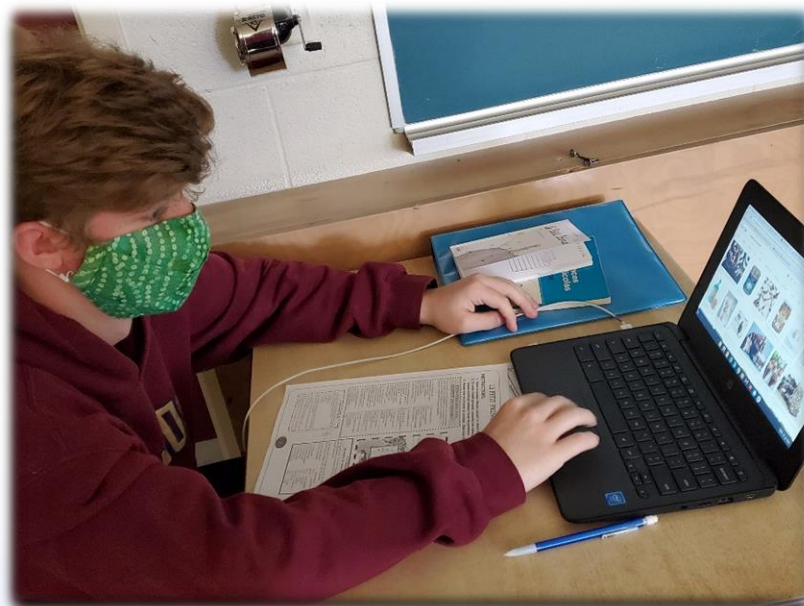 - Accessibility for all students to digital learning tools

- **Teachers:**
  - Integration of learning materials into student learning plans
  - Support for different learning styles and different learning needs
  - Device access allows for ongoing feedback, student engagement and increased communication with learners beyond the classroom

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What we learned from our 1:1 Chromebook Schools

- The importance of teachers setting expectations for accessing the internet and online platforms

- Repair and replacement costs

- Increased need for both device support and professional learning

- Requirement for program specific devices beyond Chromebooks

- Equity of access

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1:1 Chromebook Project Investments

School Year	Chromebooks for 7 High Schools	Costs
2017/18	2,095	$732,000
2018/19	2,000	$698,960
2019/20	1,405	$490,900
2020/21	2,610	$940,371

School Devices and Asset Management

Device Type	TVDSB Lifecycle	# of Devices Within Lifecycle	# of Devices Beyond Lifecycle	# of Devices Loaned to Students
Chromebook*	5 yrs	34,960	5,000**	19,030
iPad	5 yrs	8,780	5,490	2,425
Laptop	5 yrs	4,080	380	n/a
Desktop	8 yrs	3,905	11,040	n/a

* Includes 1:1 Chromebooks at seven secondary schools

** 10,170 Chromebooks will be beyond their life cycle in 2021, with another 10,565 beyond their life cycle in 2022

Student Technology Devices

Opportunities

- ✓ Variety of age-appropriate devices used at schools
- ✓ Administered centrally by ITS, less burden on school administration
- ✓ Improved pricing due to bulk purchases
- ✓ Increased access to online resources and digital tools, supporting Board's learning platforms and e-Learning
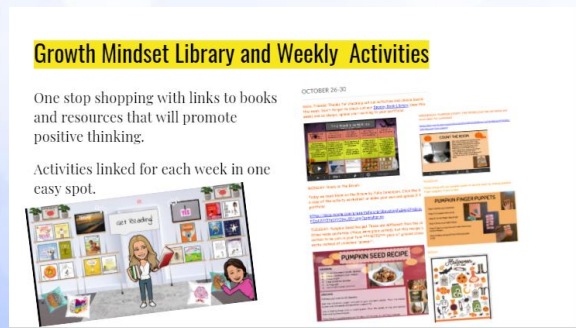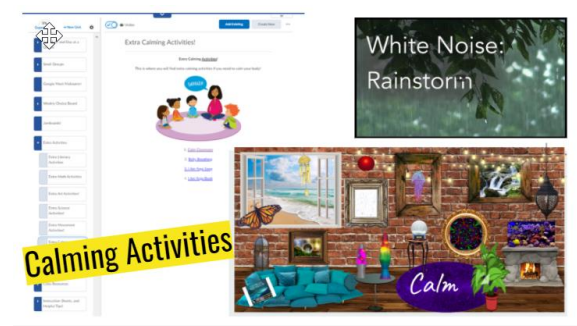
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Student Technology Devices

Challenges

➢ Aged devices cannot support software updates and security changes

➢ Ongoing repair and support requirements

➢ Inconsistent supply and access between schools

➢ Limited availability due to student loaner demands

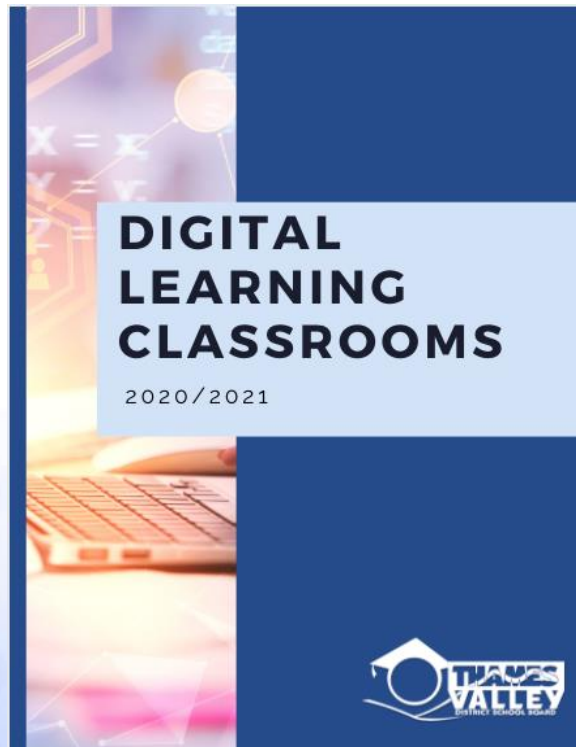➢ Insufficient annual funding to administer and manage device replacement needs

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Instructional Practice:
The Why

The purpose of funding technology is **to support student learning.**

- We have learned that the goals of the Chromebook Project are equally applicable to all TVDSB Schools:
    - Increase ongoing student access to technology in schools
    - Enhance embedded technology use into daily instructional practice
    - Build teacher capacity with the use of digital learning platforms

Instructional Practice:
Digital Learning Classrooms

Support Documents for Staff

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Support Documents for
Parents & Community Partners

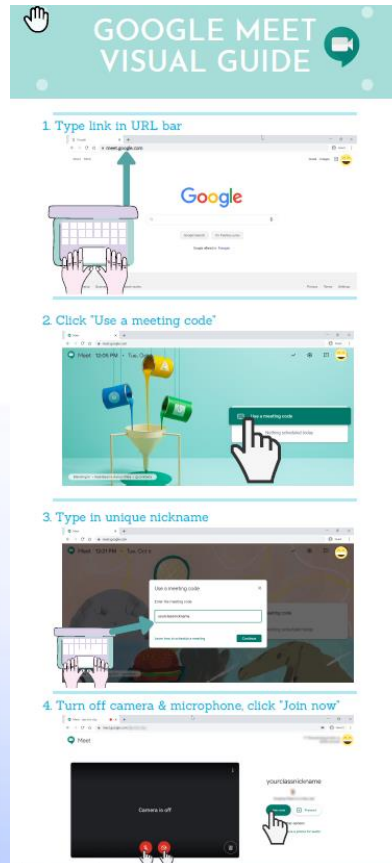Brightspace Support Document for Parents and Guardians

Understanding Brightspace for Parents (Full Remote Learning)

Parents and guardians are invited to join us for a virtual introduction to the Brightspace learning platform.

This is a recording of the live event held September 23, 2020.

GOOGLE MEET VISUAL GUIDE

1. Type link in URL bar
2. Click "Use a meeting code"
3. Type in unique nickname
4. Turn off camera & microphone, click "Join now"

Google Classroom Support Document for Parents and Guardians

April 2020

Technology and Software Support

Next Steps

- Device distribution to individual students as part of a Chromebook 1:1 Project will be discontinued as of June 2021
- Information Technology Team will deploy devices more broadly across the system with input from schools and staff
- Continued Professional Learning opportunities for all staff (Full Remote and In-Person)
- Creation of a board plan for sustainable computing device acquisition and renewal to maximize resources and purchasing opportunities
- Future opportunity to seek feedback from students and parents

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