Technology Integration in Region 18 Schools

January 2019

District Technology Long Term Goals

Continue	Continue to integrate and expand quality digital learning at all levels
Shift	Shift toward 1:1 student to device deployment at all levels
Continue	Continue computer replacement program
Continue	Continue long term plan to update network infrastructure

Technology Integration and Support

Technology Integration Specialists: Professional development, co-teaching, student training, staff training, support district goals

Network Administration and Maintenance: Research, install and manage all business and educational applications as well as maintain network infrastructure

Technology Facilitators: Manage/help maintain devices, trouble-shoot with staff/students, teach computer skills in lab (K-8), help support state testing, support district goals
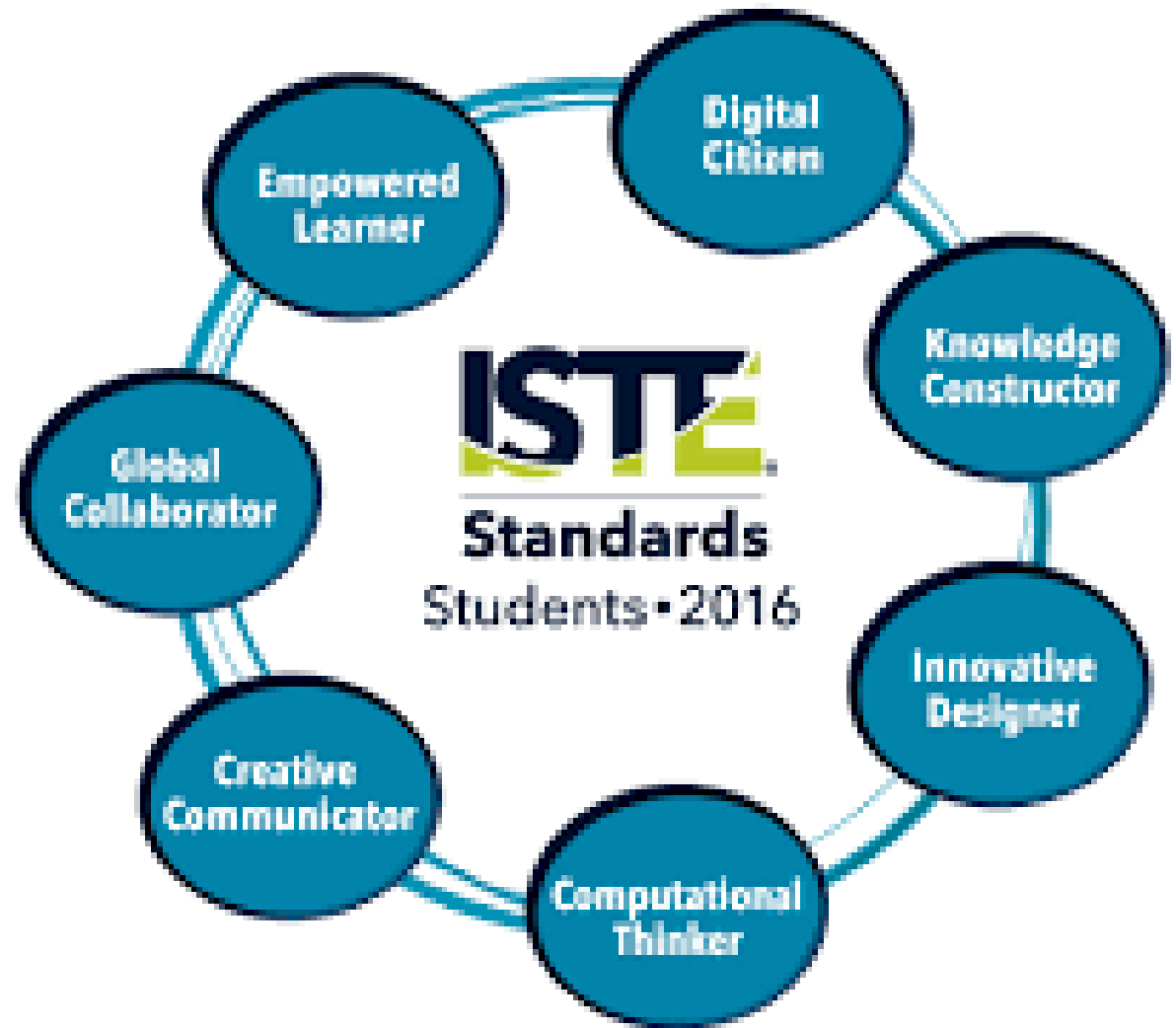
Role	Elementary Schools	Middle School	High School
Tech Integration	Jen Whelan	Andy Raucci	Andy Raucci
Tech Facilitator	Tish Kirk	Pat Aldridge	Mary Cikatz
	Kyra Seurattan		

District Network Admin	Tammy Noyes and Andy Liefeld

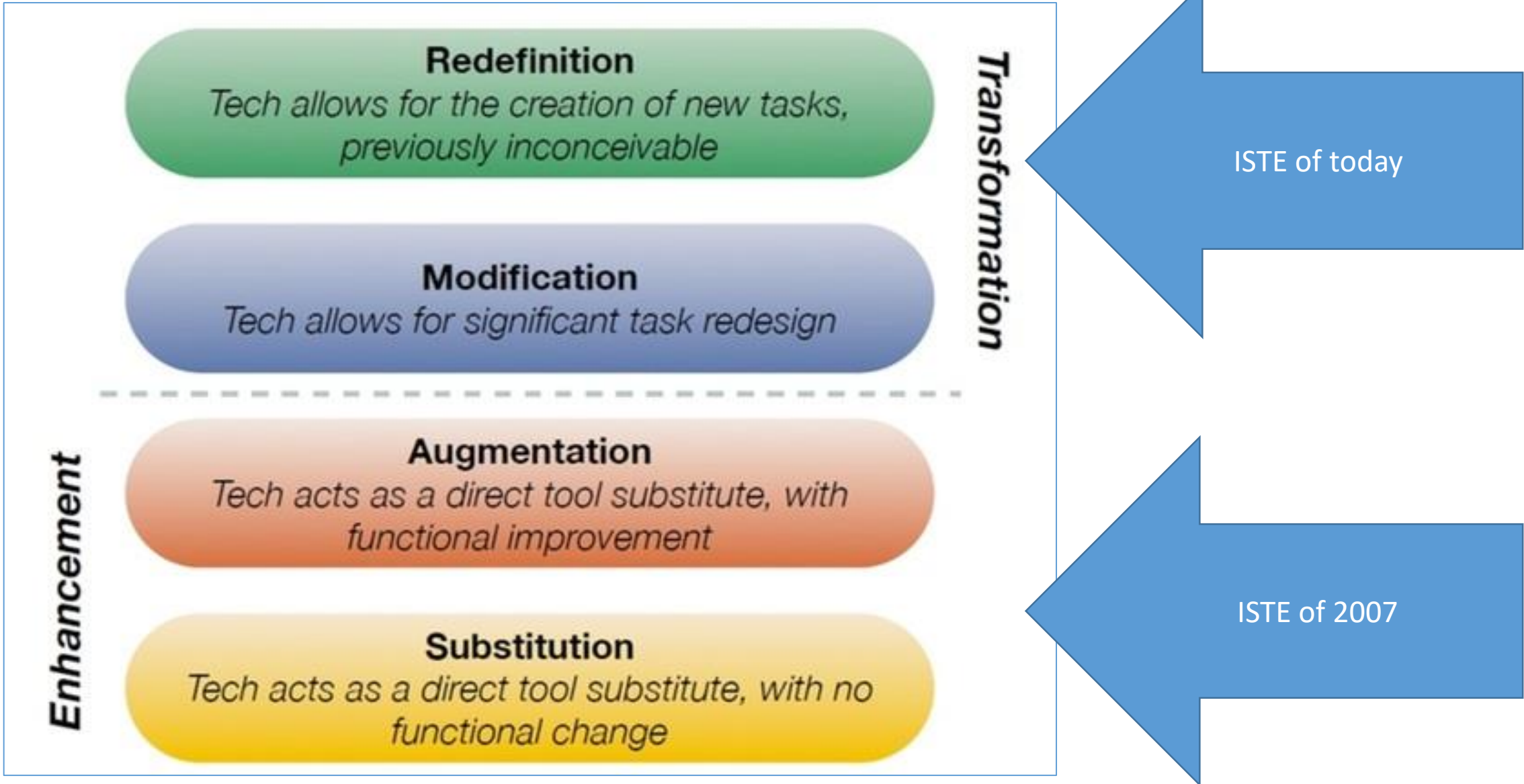# Role of ISTE Standards

Why is technology integration so important?

How have the ISTE Standards for Students evolved?

1998 Learning to use technology

2007 Using technology to learn

2016 Transformative learning with technology

Redefinition
Tech allows for the creation of new tasks, previously inconceivable

Modification
Tech allows for significant task redesign

Augmentation
Tech acts as a direct tool substitute, with functional improvement

Substitution
Tech acts as a direct tool substitute, with no functional change
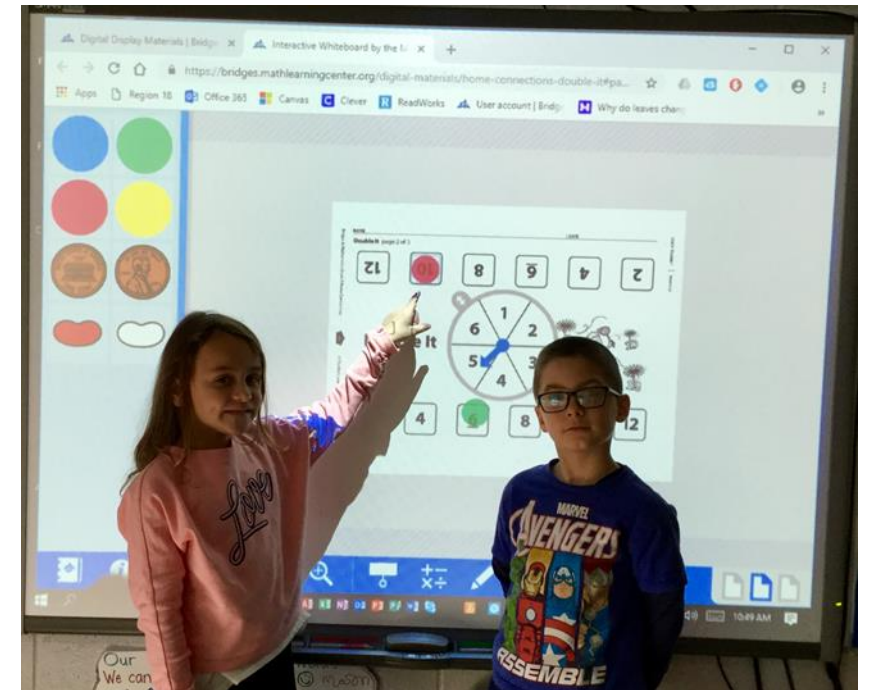
Transformation

Enhancement

ISTE of today

ISTE of 2007

Software: Informing Instruction

Total Correct	Literal	Main Idea	Vocabulary	Inference	Summarize
	1. According to the audio story, why has the Russian government neglected to recognize Soviet crimes?	2. What is the main idea of the audio story?	3. What is the best meaning of the word nostalgia in this excerpt from the story? Use context to choose your answer.	4. What can you infer from Mikhail Gorbachev's quote about how his role is being recorded in history?	5. What can we conclude from the following quote made by Lev Mishchenko?
67%	**84%**	**74%**	**63%**	**26%**	**89%**
4 80%	✔ click for details	✔	✔	✘	✔
5 100%	✔	✔	✔	✔	✔
4 80%	✔	✘	✔	✔	✔
4 80%	✔	✔	✔	✘	✔
4 80%	✔	✔	✔	✘	✔

Listen Wise: Real time assessment data for focused instruction

Interactive Bridges Lessons

Software: Challenging Thinking

Ceramic Ukulele with wooden handle
programmed and cut by new laser cutter

Senior Project: CAD designed truck
bumper cut on plasma cutter

Laser Cut Award

Relevant Experiences in Technoloy

Canvas Sister Schools – French students using course in Canvas as a dropbox for communications between sister classrooms (coming soon to Spanish and Chinese classes).

Updated ADOBE products for MS and HS – Updates support more classrooms using ADOBE products and being able to access more advanced features.

Mobile Computer labs – Increasing instructional time, student/teacher

2019-2020 Technology Integration Goals

Evaluate curriculums against new ISTE Standards to guide PD and curriculum development

Continue targeted PD for teachers and training for students using Tech. Integration Specialists and Tech. Team

Introduce Google Classroom grades 2-5 (Student/teacher based only)

Expand 1:1 student computer deployment

Audit and assess applications, tech. tools, resources

2019-2020 Student Device Program

Goal: replace aging laptops and desktops, increase student access to computers in the classroom, deploy devices which are less expensive per unit/simpler for tech staff to manage/match curriculum.

Replace all K-8 window laptops with Chromebooks

Add grades 4,6,7 to the student 1:1 program

Eliminate elementary computer labs

Reduce Middle School computer labs from 4 to 2

Replace K-2 IPADs and deploy centralized management program

Utilize lease program to level the annual technology budget

2019/2020 Student Device Plan

HS	MS	Elementary
3 Specialized Labs (Music, Art, Tech. Ed)	Current: 4 wired labs Proposed: 2 Wired Labs (one tech lab/one lab)	Current: 1 Wired Lab Proposed: No lab
9-12th grades : 1:1	Current: 8th grade 1:1 Proposed: 6th-8th grade 1:1	Current: K-2 6 iPads/3 laptops/classroom, 5th 1:1 Chromebooks Proposed: K-2 6 IPADs/replace laptops with Chromebooks, 4th & 5th Chromebook 1:1
	Current: 6th and 7th - 4 laptop carts grade Proposed: No carts	Current: 1 Chromebook cart, 3 laptop carts and 2.5 IPAD carts. Proposed: 4 Chromebook carts and 2.5 IPAD carts

Long Term Network Infrastructure Replacement Program

2016-18
- Replaced: network firewall, wireless access point and controller OS upgrade, server and data storage replacement, reduced number of servers - migrated accounting application and majority of data storage to the cloud, network core switch replacement, backup server replacement.

2019-20
- High School network switch replacement.

2020-21
- Wireless controller replacement

2021-22
- Middle School and Elementary School network switch replacement

Future Technology Expectations

2019-2020

- Expand Canvas features into the classroom with expectations of use
- Expand use of cloud based tools
- Evaluate technology use and curricular impacts
- Continue examining student device model (1:1, laptops/Chromebooks/IPADs)

2020-2021

- Provide PD based on technology expectations/needs
- Continue to explore digital learning best practices (trends, other districts, tools)
- Further develop transferable skills for students and staff to improve work flow, collaboration, access, and independence

Thank You for Your Support, Questions, and Comments