



# TECHNOLOGY PLAN

*Instructional & Information Technology*  
2018-2021

## Report of the Superintendent

Sarah Kyriazis, Manager of Instructional Technology & Digital Learning  
Robert Walton, Information Technology Officer

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The Worcester Public Schools is committed to providing authentic and relevant learning experiences that are enriched by the meaningful use of technology.

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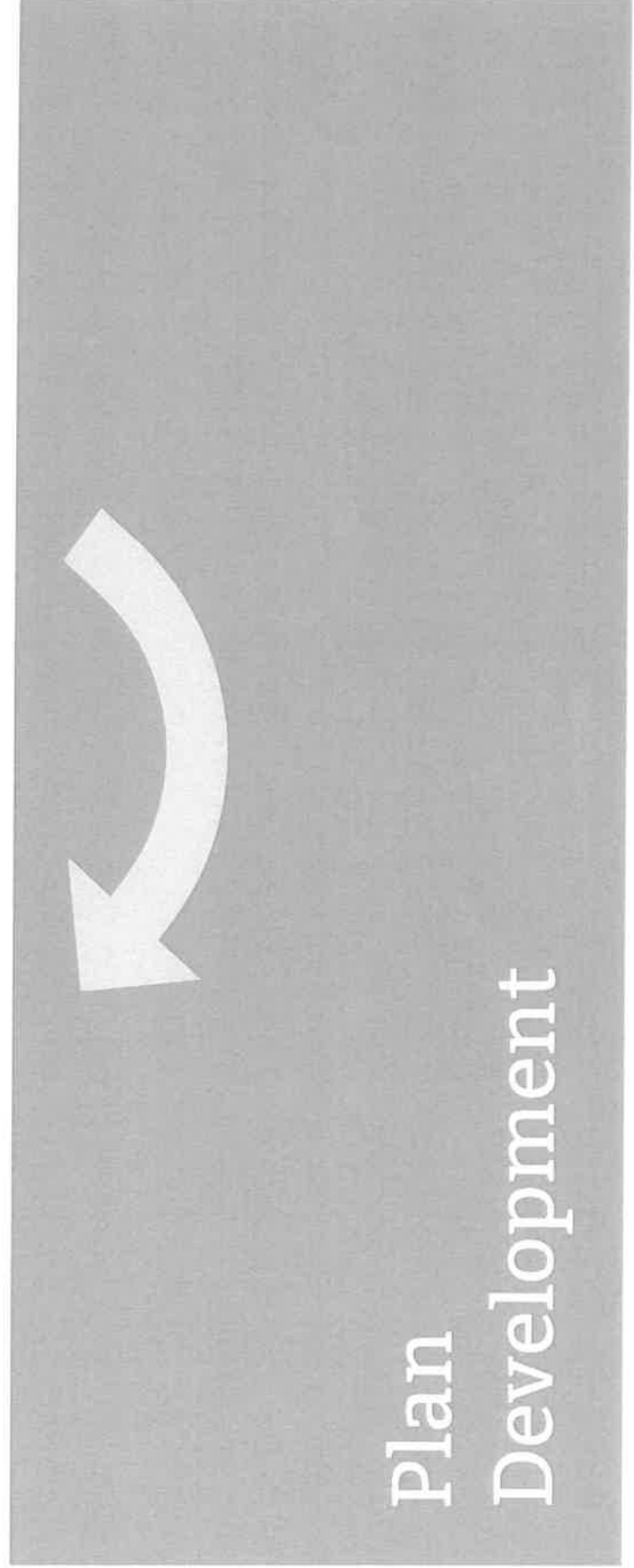
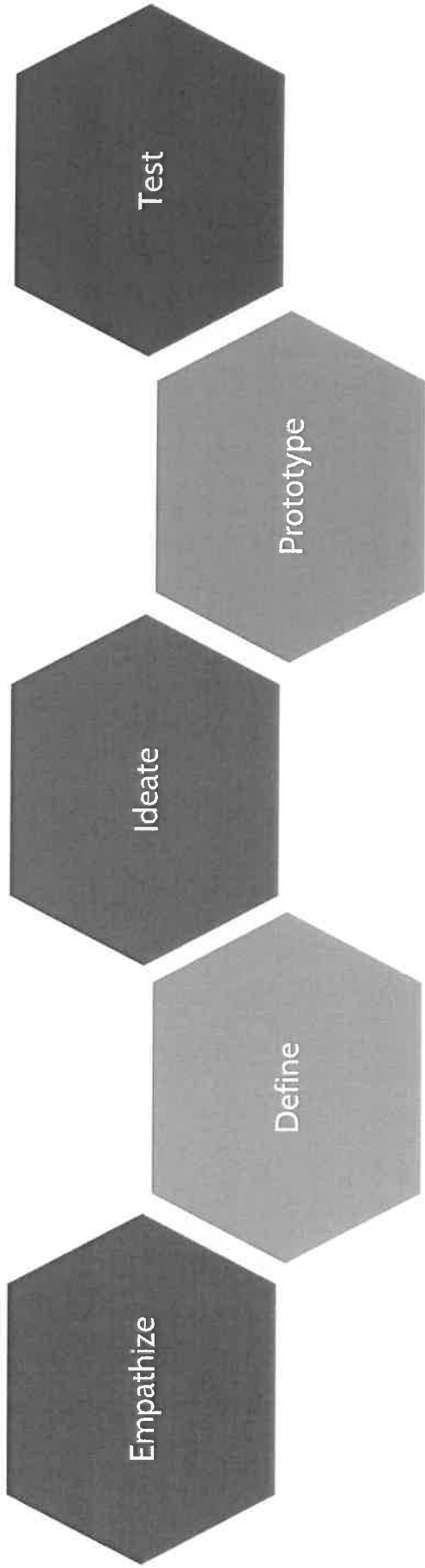
# Committees

- Steering
- Digital Migration
- Student Information System
- Professional Development for Digital Learning
- Instructional Resource & Technology (Strategic Plan Subcommittee)
- Website

**60+**

committee members

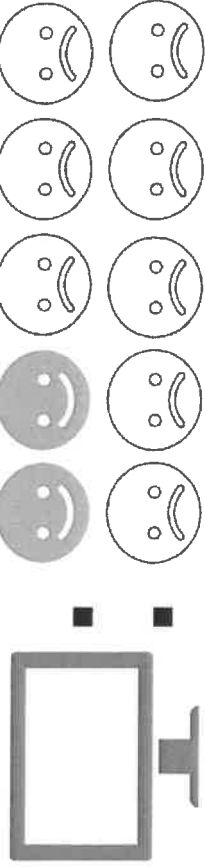




# State of Technology

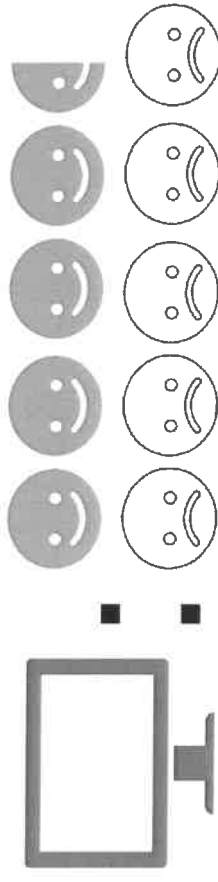
**FY 13-FY 18**

- ↑ 5% wifi ready classrooms
- ↑ 25,000+ students
- ↑ 5,000 student devices



**FY 19-FY 22**

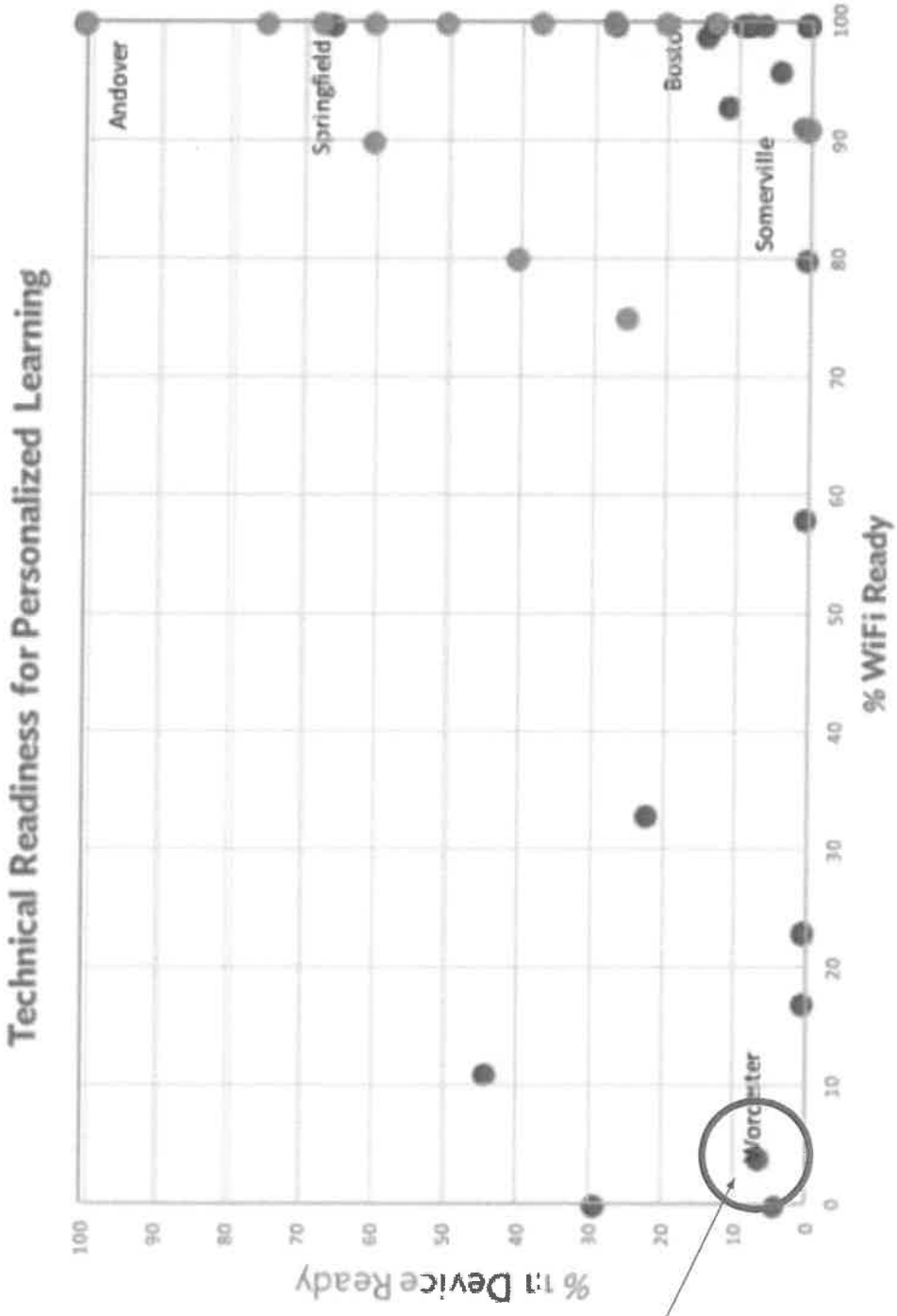
- ↑ 95% wifi ready classrooms
- ↑ 25,000+ students
- ↑ 11,000 student devices



*This reflects the annual operating budget for Instructional Technology. This budget is now fully committed to a lease through FY22.*

# 2017 Technical Readiness

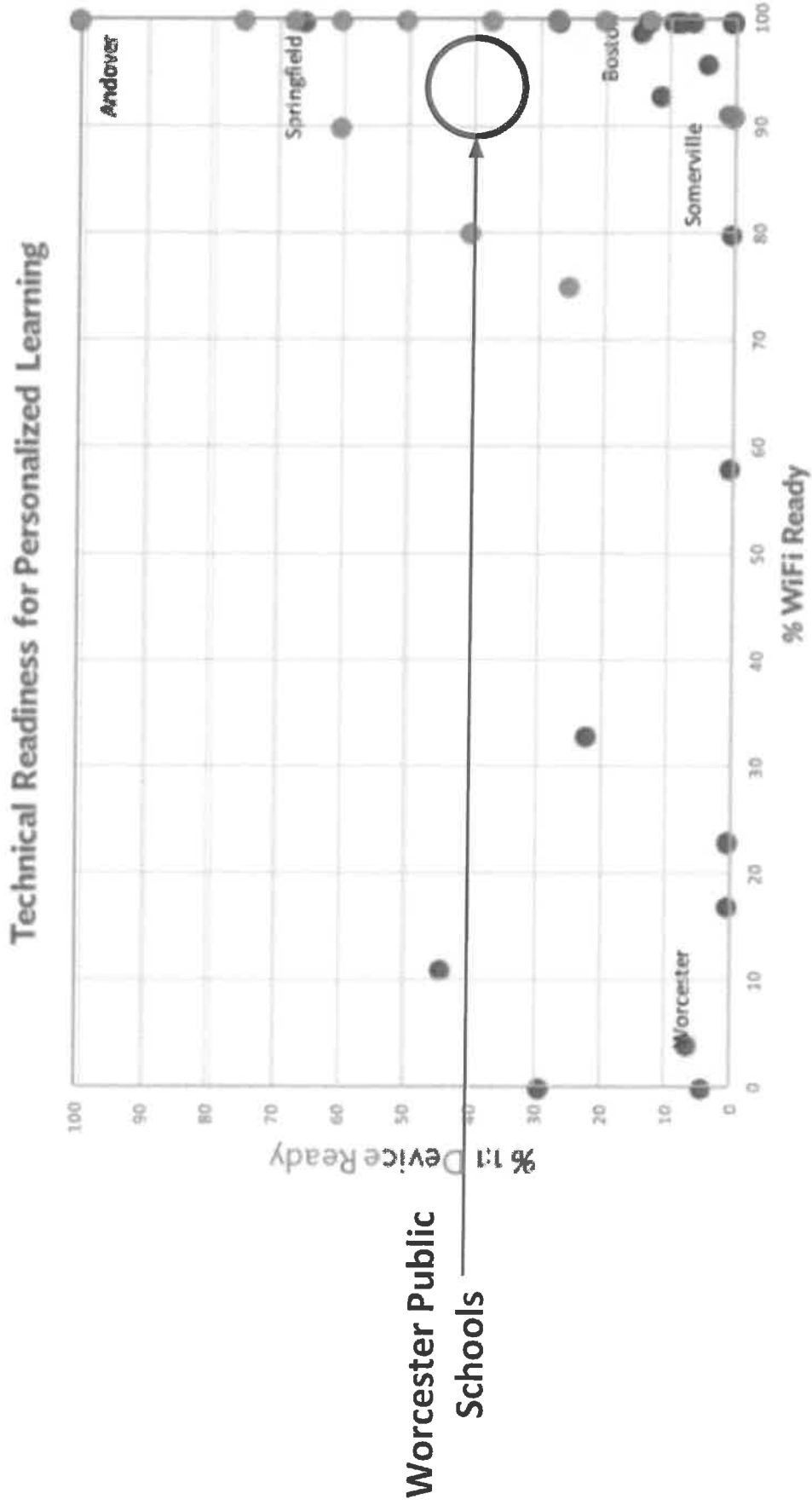
Figure 26. Technical Readiness Among Catalyst and Urban Network Districts

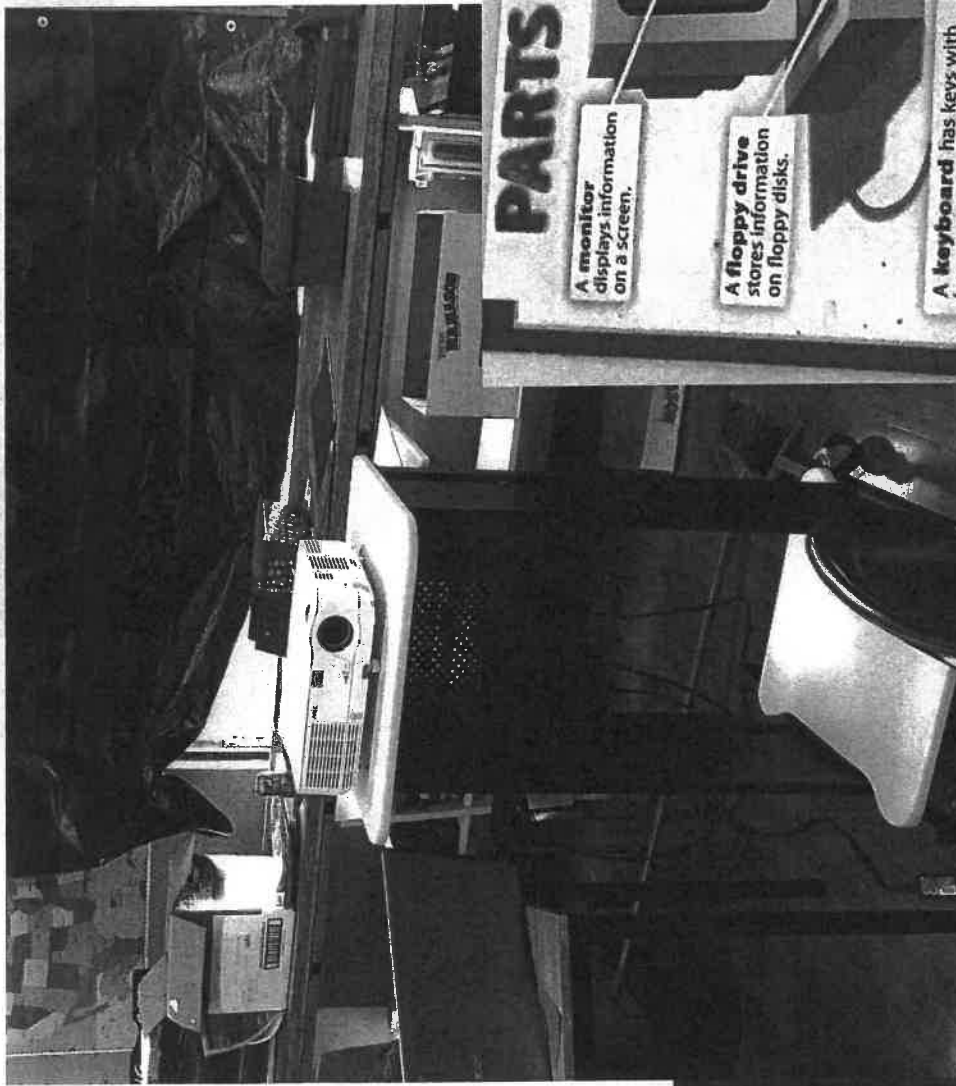


Worcester Public Schools

# 2019 Technical Readiness (Estimated)

Figure 26. Technical Readiness Among Catalyst and Urban Network Districts





# PARTS OF A COMPUTER

A monitor displays information on a screen.

The hard drive is the main area where information is stored. It is located inside the computer case.

A floppy drive stores information on floppy disks.

A CD-ROM drive reads information stored on compact disks. You cannot change information on a CD-ROM disk.

A keyboard has keys with letters, numbers, and symbols on them. It is used to enter information and instructions into a computer.

A mouse is a hand-held tool used to point to and select items on the screen.

A printer makes a paper copy of information from the computer.

Top Left: common site in classrooms, projector in the middle of room  
Bottom Right: poster seen in current classroom



# Critical Components



Learning



Teaching



Leadership



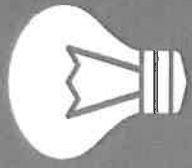
Assessment



Infrastructure,  
Equipment & Systems)



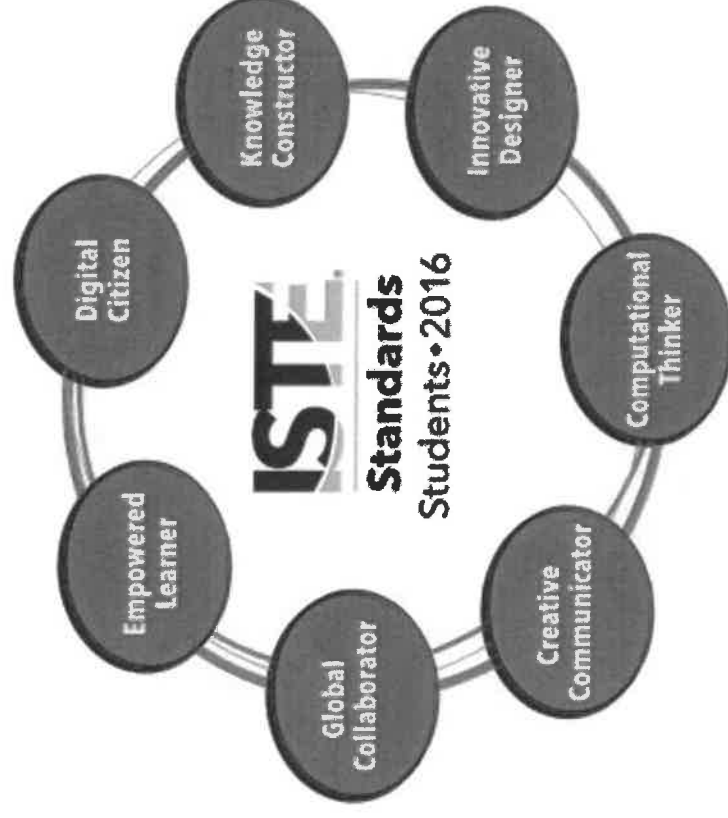
Communication

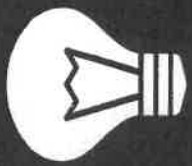


# Learning

## Students will:

- Have engaging and empowering learning experiences access to the modern tools to support their learning
- Have access to coursework and experiences leveraged with technology
- Be guided by the ISTE standards
- Have learning experiences with the content in the MA Digital Literacy and Computer Science Standards





# Learning



## Actions

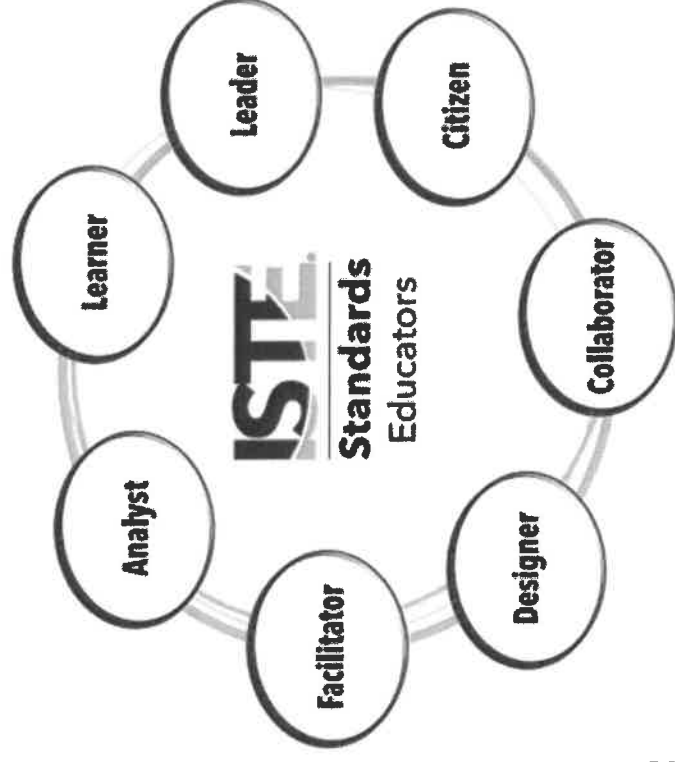
- Professional development will focus on how to support student learning, choice, and agency
- DLCS standards should be integrated into the curriculum
- Monitoring of progress
- Integration of Massachusetts Digital Literacy and Computer Science Standards (DLCSS) into the K-12 curriculum
- Additional DLCSS courses\*
- Digital Literacy Computer Science Liaison\*

*\*funding needs to be identified*

# ♥ Teaching

Educators will:

- Be supported by technology that connects them to people, data, content, resources, expertise, and learning experiences
- Be guided by the ISTE Educator Standards
- Have access to high quality professional learning opportunities:
- Have coaching and support from district specialists and leaderships



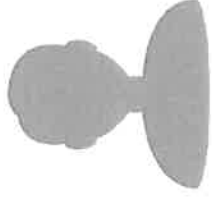
# Teaching

## August-October 2018

### Actions

- Create a high quality sustained teacher leadership program
- Increase district technology coaches to 8 total (3 current)\*
- Offer a variety of professional learning opportunities
  - Coaching and modeling
  - Co-planning lessons
  - Varied formats
  - Varied times
  - Curriculum focused
- Research & Test new PD formats

3



District Focused  
Technology Coaches



3.8/4

Average Workshop Rating



924

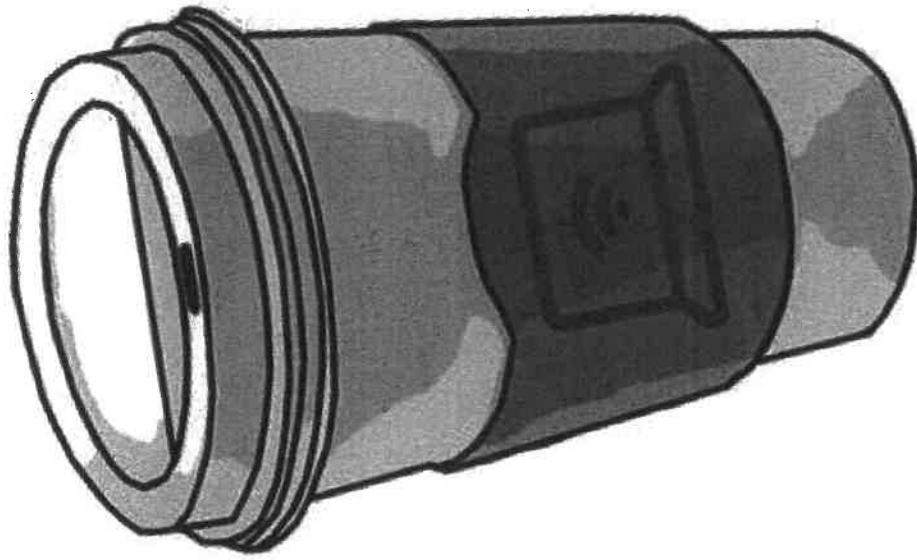
Staff Attended PD

*\*funding needs to be identified*

# Teachers Ask... We Deliver

- Online - weekly challenges
- Blended
- Face to Face
- Supports all learners
- Virtual Drop-ins
- Saturdays, vacations, before, during, and after school

FUN | INNOVATIVE | RELEVANT



**#WooBrewEdu**

*“A leader is best when people  
barely know he exists, when his  
work is done, his aim fulfilled,  
they will say: we did it  
ourselves.”*

*- Lao Tzu*







# Leadership

Leaders will:

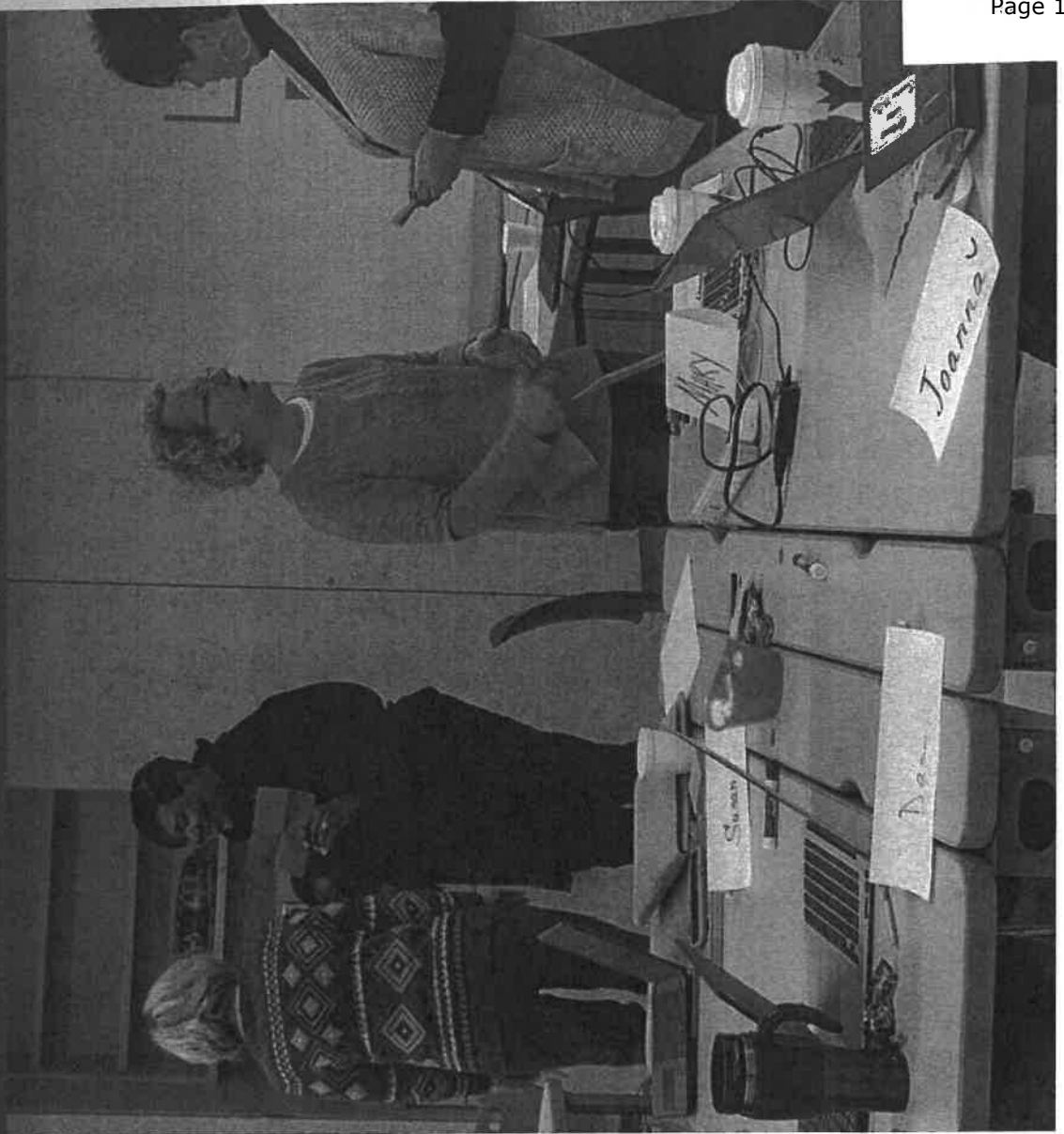
- model the effective use of technology
- be guided by the ISTE Leadership Standards
- be supported by focused PD experiences



# Leadership

## Actions

- Create and offer focused professional learning experiences
- Develop high quality and sustained innovative and digital principal leadership cohort
- District leadership will model effective integration
- Support and coaching



# Assessment

## Digital Assessments...

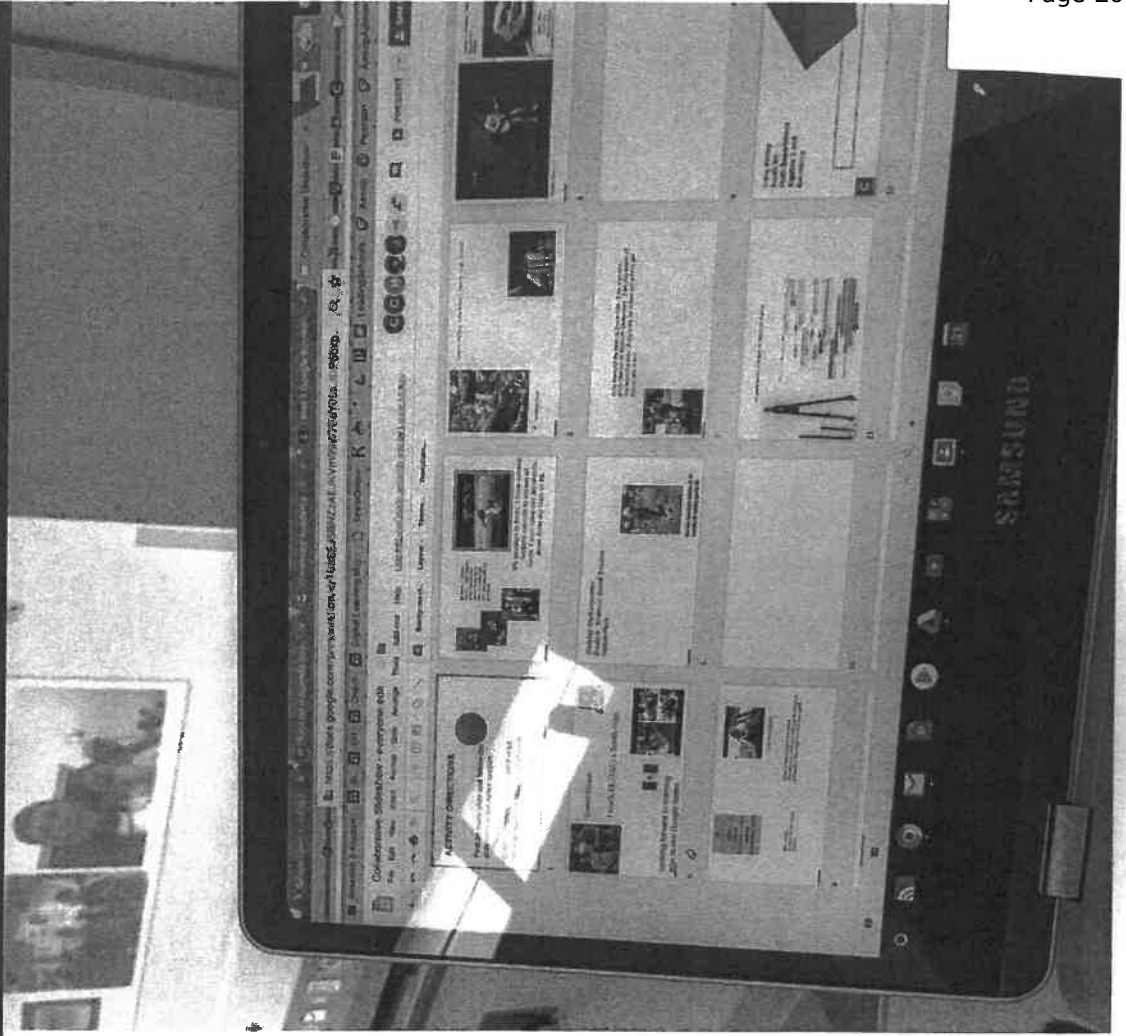
- Can be formative or summative
- Should support the everyday learning objectives
- Leverage technology to measure what matters and use data to improve learning
- Break down barriers for diverse learners
- Can be given in a variety of ways to give students voice and choice

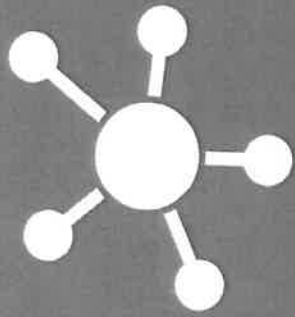


# Assessment

## Actions

- Analyze and select the most effective digital tools and strategies for assessment
- Offer pd sessions for strategies to use a variety digital assessments
- Support district and school data teams





# Infrastructure, Equipment, & Systems

## Actions

### *Complete*

- Upgrade wifi
- Move to Google Apps for Education
- Shift in lease priorities to mobile devices
- Launched Clever

### *Identify funding for*

- Grades K-2, 2:1 devices
- Grades 7-12, 1:1 chromebooks
- Grades 3-6, 1:1 chromebooks in carts
- Modern 3rd party student information system & gradebook
- Learning Management System



# Communication

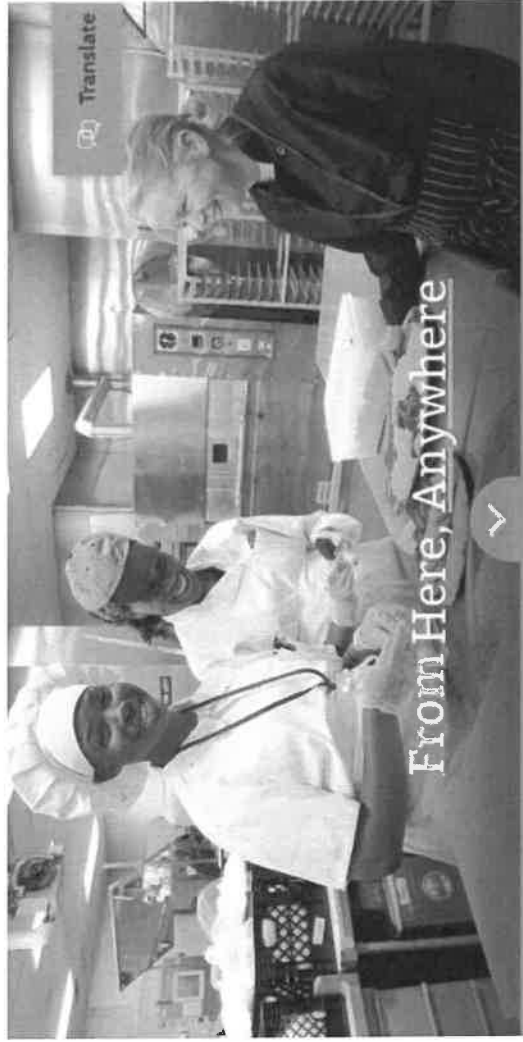
## Actions

- Modern student information system
- New website
- Social Media
- Mobile
- Youtube
- Channel 11
- Connections with family & community

**WORCESTER**  
PUBLIC SCHOOLS



MENU



44

Schools in the District



94%

Attendance Rate

# Estimated Budget - Strategic Plan

Many of the recommendations of the strategic plan require more funding. This is an estimate of the additional costs to implement the strategic plan.

	Current Annual Budget	Estimated Additional (Annual)	Total Annual
Instructional Technology	\$1.2 million	\$1 million	\$2.2 million
District Instructional Technology Coaches	\$240,000 (3)	\$400,000 (+5)	\$640,000 (8)
Digital Learning & Computer Science Liaison	n/a	\$85,000	\$85,000
Network & Infrastructure	\$250,000	\$200,000	\$450,000
Information Technology Staff	21 IT Staff \$1,235,000	+3 IT Staff \$240,000	24 IT Staff \$1,475,000
Student Information System (SIS)	Internal	\$185,000 annual \$125,000 one-time	\$185,000
Special Education IEP module	Intern	\$130,000 annual \$85,000 one-time	\$130,000
Learning Management System (LMS)	\$6,000	\$150,000 annual \$35,000 one-time	Third Party LMS \$150,000



**Thank You!**

