

AUSTIN PUBLIC SCHOOLS

ENGAGING AND EMPOWERING ALL LEARNERS FOR LIFE

Essential Technology Outcomes
June, 2016

Introduction

Embedded in Austin Public School's (APS) Strategic Roadmap 2016-2018 is the strategy to "Design, fund, implement and support technology as a critical asset for teaching and learning". One way in which APS is enacting this strategy is through the talented technology integration coaches that are working across the schools.

During the first year within their roles, the technology integration coaches identified the diverse range of technological skills and knowledge across the students here at APS. To ensure that ALL students have the expertise to use the technological devices provided by the district to enhance their learning, the technology integration coaches developed the Austin Public Schools Essential Technology Outcomes.

These outcomes are grounded within the International Society for Technology in Education's (ISTE) Standards for Students and informed by APS teacher input across the district. The technology integration coaches designed these essential outcomes to be easy to understand, as they know that teachers already have a lot of their plates. We hope that as teachers read them, they see many of the essential outcomes already happening in their classroom as these outcomes are not to serve as something new but establish a baseline of what students should know and be able to do with technology.

As technology is constantly changing, we see the following outcomes as a living document. The technology integration coaches and district admin are committed to iterating these outcomes as technology and instruction continues to shift. This document is intended for teachers to use when transforming lessons, for administration as they design building initiatives, and technology integration coaches as they continue to mentor and train teachers.

I would like to thank the following people from across the district who worked hard on developing these outcomes: Amy Thuesen, Derik Gustafson, Eric Harder, Tina Henely, Josh McRae, Stephanie Fehn, Blake Henely, Jessica Cabeen, Paul White, Burke Egner, and Ryan Mayers. Also, thanks to Cassie Scharber and Lana Peterson from the LT Media Lab at the University of Minnesota for their guidance. In addition, I would like to thank all the teachers from across the district that gave feedback throughout the creation of these outcomes.

David Krenz
Superintendent
May, 2016

Essential Outcome Categories

The APS Technology Essential Outcomes are organized under four categories:



Device Usage

Students must build technology skills in order to operate a wide range of devices such as desktop and laptop computers, tablets, mobile phones, cameras, etc.



Tools & Applications

Every device that a student uses likely houses applications that can be utilized for learning. Students must know how to use the tools that are within devices to organize, present, and demonstrate knowledge.



Citizenship & Literacy

We live in tech-infused society that relies on people and communities to be proficient in living within the contemporary, global world. Learners must learn how to navigate and collaborate, with and without others, in online settings.



Innovative Practices

While technology is helpful in advancing learning and our society, new ideas require people. Students must build their creativity and critical thinking skills in order to solve real-world problems.

For 'Device Usage' the specific essential outcomes listed by each school level as these skills are acquired at a faster pace. For instance, 'Open a file' is mastered by the elementary school. The essential outcomes in the 'Tools & Applications', 'Innovative Practices', & 'Citizenship & Literacy' are listed across the school levels as they acquired over a longer span of practice.

Gradual Release of Essential Outcomes

The Gradual Release framework is an instructional model that is used within APS lessons and units. The gradual release levels will be used to help staff, students, and community identify what level of understanding and skill development the students should be at with each essential outcome. The skills and knowledge taught within these outcomes do not happen instantly and most are not a part of the formal core curriculum. The gradual release may happen over years for some essential outcomes.

Beginning: The gradual release process begins with, “I do”, or the teacher leads the instruction for this class. Given that these outcomes are about what the student can do, we will assume this happens when introducing new technological skills and knowledge. “Beginning” in the essential outcomes refers to, “we do”. In this level, the teacher leads the guided practice for the students.

Emerging: In this level, the teacher can be more hands off and let the skills develop amongst students collaboratively, or “you do with support”.

Advancing: In this level, students can utilize and navigate the technologies with little help from the teacher, or “you do”.

This level is the baseline, meaning students and teachers are comfortable with students moving farther within the release model for any specific standard, it is encouraged.

Essential Outcomes



Device Usage

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

Elementary Device Usage					
Essential Outcome	K	1	2	3	4
Open a file		B	B	D	A
Know vocabulary such as: desktop, monitor, mouse, keyboard, application, program, laptop, browser		B	D	D	A
Know hardware basics such as: on, off, shutdown, log off	B	D	D	A	A
Log into a computer		B	D	D	A
Take photos with a camera or device	B	B	D	A	A
Maintain and care for assigned technology device	B	B	D	A	A
Operate a mouse and trackpad	B	B	D	A	A
Navigate a browser such as: back, forward, tab, bookmark	B	B	D	D	A
Copy and paste				B	B
Type efficiently using a QWERTY keyboard				10 WPM	15 WPM

Essential Outcomes



Device Usage

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

Middle School Device Usage				
Essential Outcome	5	6	7	8
Copy and paste	D	D	A	A
Navigate menus within applications	B	D	D	A
Save a file locally and online	B	D	D	A
Print a document	B	D	D	A
Locate files and file paths	B	D	D	A
Login to a computer using your own account	A	A	A	A
Troubleshoot hardware issues such as: restart, connect to wireless	B	D	A	A
Type efficiently using a QWERTY keyboard	20 WPM	25 WPM	30 WPM	35 WPM
Use keyboard shortcuts	B	D	A	A
Set homepages within browsers	D	D	A	A
Share files online	B	B	D	D
Understand file paths and folder systems on devices and in the cloud	B	B	D	D
Change and create passwords	D	D	A	A

Essential Outcomes



Device Usage

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

High School Device Usage				
Essential Outcome	9	10	11	12
Bookmark websites within browsers and applications	D	D	A	A
Organize files into folder systems and by tags	D	D	A	A
Record audio	D	D	A	A
Edit recorded audio	B	D	A	A
Define the elements of an online user agreement	B	D	A	A
Share files online	D	D	A	A
Understand file paths and folder systems on devices and in the cloud	D	D	A	A
Change and create passwords	A	A	A	A
Evaluate websites for accuracy and importance	D	D	A	A
Create and manage a web based account	D	D	A	A
Create and edit video	D	D	A	A

Essential Outcomes



Tools & Applications

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

Elementary Tools & Application Skills					
Essential Outcome	K	1	2	3	4
Actively participate in an online classroom (Schoology, IC, Classroom Notebook, Yammer)					B
View, download and upload content online			B	D	D
Compose short stories using a web-based tool		B	D	D	D
Compose and format longer stories using word processing software		B	B	D	D
Demonstrate knowledge using a variety of applications			B	D	D
Complete graphic organizers using software		B	B	D	D
Operate a drawing program	B	B	D	A	A
Edit Photos				B	B
Utilize search engines and search operators		B	D	D	A

Essential Outcomes



Tools & Applications

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

Middle School Tools & Application Skills				
Essential Outcome	5	6	7	8
Actively participate in an online classroom (Schoology, IC, Classroom Notebook, Yammer)	B	D	A	A
View, download and upload content online	D	D	A	A
Compose short stories using a web-based tool	D	D	D	D
Compose and format longer stories using word processing software	D	D	D	D
Demonstrate knowledge using a variety of applications	D	D	A	A
Complete graphic organizers using software	D	D	D	A
Operate a drawing program	A	A	A	A
Edit Photos	D	D	A	A
Use an electronic organization tool (OneNote, Outlook, bookmarks)	B	B	D	D
Utilize search engines and search operators	D	D	A	A

Essential Outcomes



Tools & Applications

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

High School Tools & Application Skills				
Essential Outcome	9	10	11	12
Actively participate in an online classroom (Schoology, IC, Classroom Notebook, Yammer)	A	A	A	A
View, download and upload content online	A	A	A	A
Compose short stories using a web-based tool	D	D	A	A
Compose and format longer stories using word processing software	A	A	A	A
Demonstrate knowledge using a variety of tools	A	A	A	A
Complete graphic organizers using software	A	A	A	A
Operate a drawing program	A	A	A	A
Edit Photos	A	A	A	A
Use an electronic organization tool (OneNote, Outlook, bookmarks)	A	A	A	A
Utilize search engines and search operators	A	A	A	A

Essential Outcomes



Digital Citizenship & Literacy

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

Elementary Digital Citizenship & Literacy					
Essential Outcome	K	1	2	3	4
Self-regulate the use of personal and educational technology time	B	B	B	D	D
Provide useful comments within online discussions					B
Collaborate with peers on digital projects			B	D	D
Understand copyright rules and fair use guidelines				B	B
Locate, synthesize, and use information from a variety of sources and media	B	B	B	B	B
Locate tools for learning	B	B	B	D	D
Demonstrate netiquette in online discussions					B
Use photos with appropriate permissions	B	B	B	B	B
Publish online content in an educationally appropriate way			B	B	D
Deal appropriately with cyberbullies and cyber harassment			B	B	B
Understand Digital Footprints appropriate online sharing				B	B
Cite sources according to established MLA or APA guidelines					B

Essential Outcomes



Digital Citizenship & Literacy

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

Middle School Digital Citizenship & Literacy				
Essential Outcome	5	6	7	8
Self-regulate the use of personal and educational technology time	D	D	A	A
Provide useful comments within online discussions	B	D	D	D
Collaborate with peers on digital projects	D	D	D	D
Understand copyright rules and fair use guidelines	B	B	D	D
Locate, synthesize, and use information from a variety of sources and media	D	D	D	D
Locate tools for learning	D	D	A	A
Configure privacy settings	B	B	D	D
Demonstrate netiquette in online discussions	B	B	D	D
Use photos with appropriate permissions	D	D	D	D
Publish online content in an educationally appropriate way	D	D	D	D
Deal appropriately with cyberbullies and cyber harassment	B	B	D	D
Understand Digital Footprints appropriate online sharing	B	B	D	D
Cite sources according to established MLA or APA guidelines	B	B	D	D

Essential Outcomes



Digital Citizenship & Literacy

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

High School Digital Citizenship & Literacy				
Essential Outcome	9	10	11	12
Self-regulate the use of personal and educational technology time	A	A	A	A
Provide useful comments within online discussions	D	D	A	A
Collaborate with peers on digital projects	A	A	A	A
Understand copyright rules and fair use guidelines	D	A	A	A
Locate, synthesize, and use information from a variety of sources and media	A	A	A	A
Locate tools for learning	A	A	A	A
Configure privacy settings	A	A	A	A
Demonstrate netiquette in online discussions	D	A	A	A
Use photos with appropriate permissions	A	A	A	A
Publish online content in an educationally appropriate way	D	D	A	A
Deal appropriately with cyberbullies and cyber harassment	D	D	A	A
Understand Digital Footprints appropriate online sharing	D	D	A	A
Cite sources according to established MLA or APA guidelines	D	D	A	A

Essential Outcomes



Innovative Practices

B = Beginner (we do), D = Developing (you do with support), A = Advanced (you do independently)

District Innovative Practices			
Essential Outcome	Elementary	Middle	High School
Utilize media across projects	B	D	A
Collaborate with others outside of your school community (live chat, video chat, Skype, Google Hangout)	B	D	A
Develop an original product that fills a need or solves a problem	B	D	A
Develop solutions to real-world problems through the lens of technology	B	D	A
Create visual aids or graphs for explaining research data	B	D	A
Demonstrate a basic understanding of coding through applications such as: Scratch, Code.org, or Tynker	B	D	A