

Technology Townhall November 2022

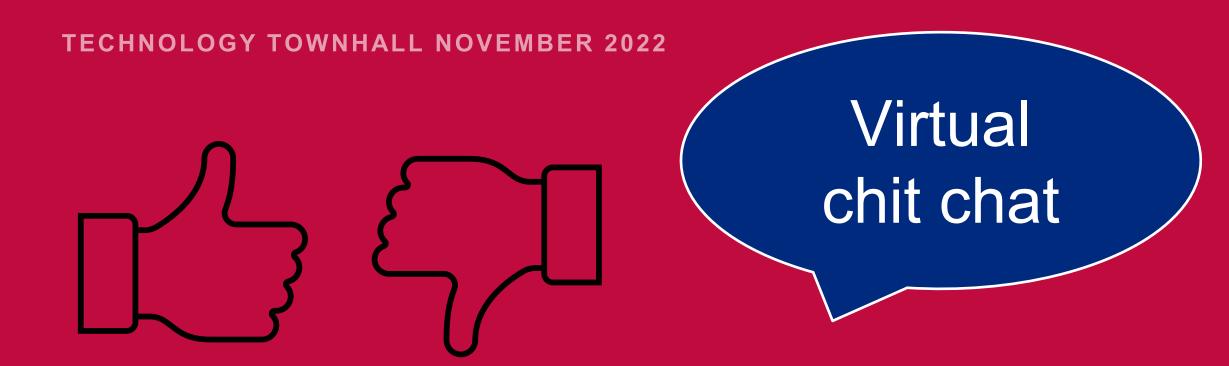
Russell Deneault Director of Technology, Creighton SD President Elect, AASBO





Kelly Krusee Program Manager Office of Digital Teaching & Learning





What does November mean in your world? What are you grateful for?



TOWNHALL OBJECTIVES

- Introductions, review of purpose and goals
- Group will learn about:
 - ODTL Updates
 - Cyber Incident Response, ACTIC
 - Cybersecurity Awareness Training, Chandler USD & Fortinet
 - Administration Reports, Sahuarita USD
 - Ed Tech Integration, ADE
- Gather feedback and input from participants



Arizona Department of Education Five Year Strategic Plan

Priority #1: Student Equity and Achievement

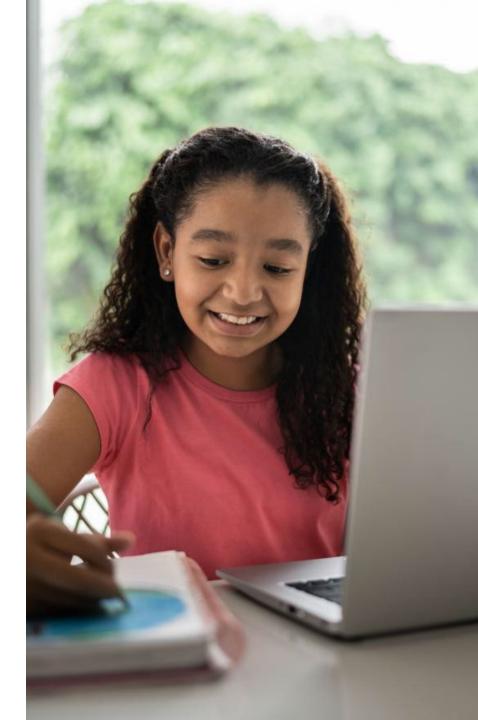
Priority #2: Educator Recruitment and Retention

Priority #3: Safe and Healthy Schools

Priority #4: Strategic Funding

Priority #5: Strategic Data Use

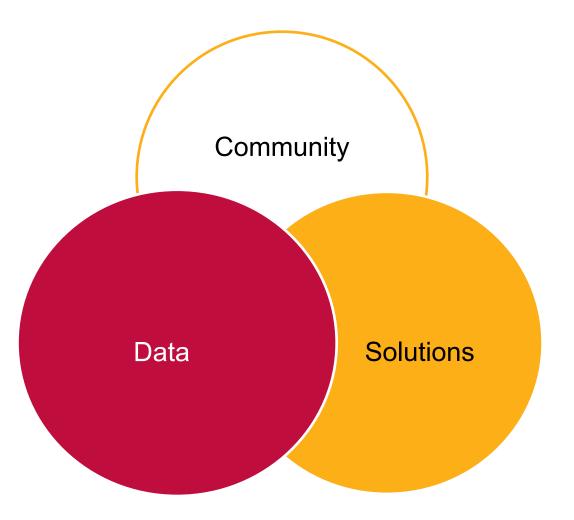




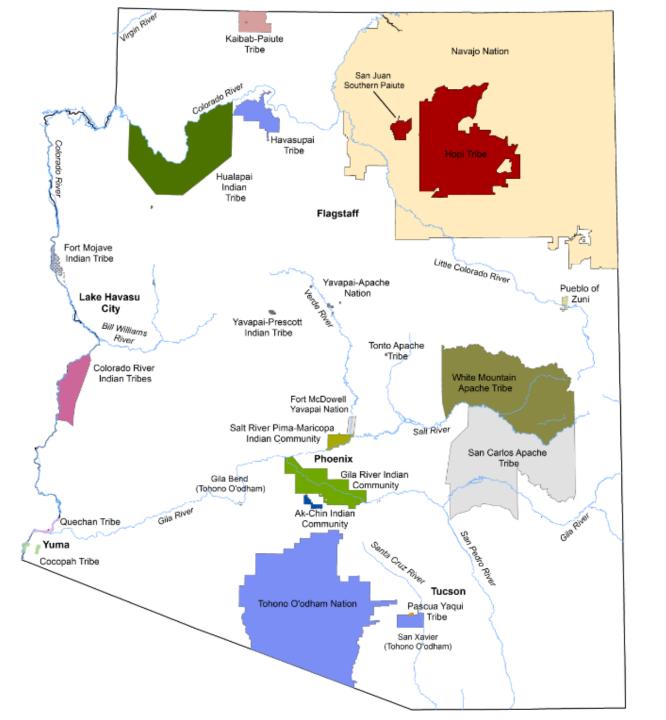
ODTL Strategic Plan

 Build Community with Local Education Agencies and solution experts
 Gather Data / Measure Progress

3. Facilitate Technology Solutions and Resources







Native American Heritage Month

- 22 Federally Recognized tribes in Arizona
- Office of Indian Education newsletter and updates include teaching tips, resources

Newsletter: https://www.azed.gov/sites/default/files/2022/11/NAHM%20-%20Newsletter%20%28week%202%29.pdf



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ODTL Updates



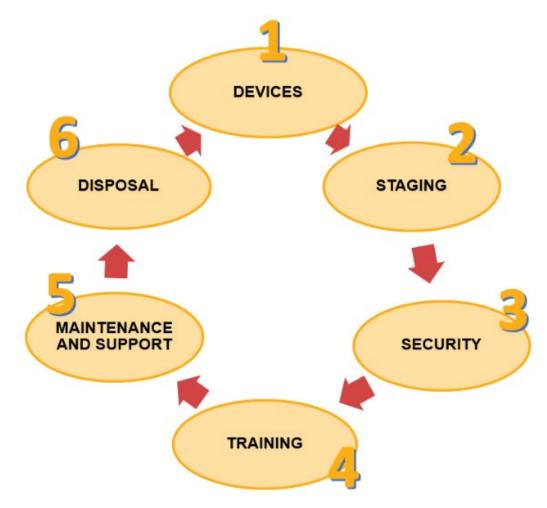
Solutions to meet your digital needs

- 1. Cooperative Purchasing Program
- 2. Cybersecurity Resources





COOPERATIVE PURCHASING PROGRAM



A suite of solutions that support the overall management of K12 digital devices (laptops, desktops, tablets).

- Windows & Chromebook devices
- Leverage economies of scale with state-wide contracts
- Services include white glove, cybersecurity protection, staging, damage protection and disposal
- Considers the Total Cost of Ownership (purchasing device and operating it)



COOPERATIVE PURCHASING PROGRAM SURVEY RESULTS





On average, responding LEAs plan to purchase, per year: 69,000 Chromebook devices 30,000 Windows laptops

COOPERATIVE PURCHASING PROGRAM COMMITTEE

Email to get involved:

kelly.krusee@azed.gov

odtl@azed.gov







Cybersecurity Resources

- Cyber Readiness Program Az Dept of Homeland Security
- <u>Cyber Readiness Program</u>
 <u>Feedback Survey</u>
- Fortinet Cybersecurity Awareness
 Training for K-12s



Community Action

- <u>Technology Townhalls</u>
- Tribal Technology Roundtables
- Digital Office Hours
- LinkedIn









Special guests, topics weekly

We need your help!

- Could these benefit your school or classroom? How?
- What are the biggest challenges and successes at your school?
- How can ADE help?





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Cyber Incident Response:

Arizona Counter Terrorism Information Center (ACTIC)



State of Arizona Cybersecurity Services Overview









WHO ARE WE



Andrew Crotty Sec+ Ce Sr. Security Engineer | ACTIC -Cyber Command Arizona Department of Homeland Security Work Cell: 480-213-8608 Email: acrotty@azdohs.gov Austin Eakin Sr. Info Security Analyst | ACTIC -Cyber Command Arizona Department of Homeland Security Work Cell: 623-229-4397 Email: aeakin@azdohs.gov



Cyber Command	AZ-ISAC	Cyber Joint Task	Statewide Cyber Readiness				
		Force	Grant Program				

Department of Homeland Security

Cyber Command



Pre/Post Incidents

Varies By Threat/Attack Type

True Positive

How can we help you?

False Positive

Department of Emergency and Military Affairs Cyber Joint Task Force





Feeling Vulnerable



Open Floor Questions



Statewide Cyber Readiness Grant Program

- Advanced Endpoint Protection (AEP)
- Multi-Factor Authentication (MFA)
- Web Application Firewall (WAF)
- Converged Endpoint Management (XEM)
- Security Assessments
- K-12 Education

https://aset.az.gov/programs/cyber-resources-local-and-tribal-governments

Statewide Cyber Readiness



https://aset.az.gov/programs/cyber-resources-local-and-tribal-governments



Program Partners







THALES



Contact us!

Ryan Murray *rmurray@azdohs.gov*

AZ-ISAC

AZ-ISAC@azdps.gov

Cyber Readiness Grant Program cybergranttaskforce@azdoa.gov





Contact us!

John McFarland

JMcFarland@azdps.gov

LTC Les King

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- Thales
 - Joe Bettencourt | Regional Sales Manager-Public Sector joseph.bettencourt@thalesgroup.com 650-649-8574

Vendor Contacts

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 - Chloe Medosch | Customer Success Manager cmedosch@cloudflare.com 562-243-4894

- Crowdstrike
 - Mary Farrelly | Regional Sales Manager mary.farrelly@crowdstrike.com 310-683-9968



Technology Townhall November 2022

Cybersecurity Awareness Training

Fortinet & Chandler Unified SD



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Free Security Awareness and Training Service for Education Sector (K-12)

Mark Kelly

kmark@fortinet.com

Major Account Manager

The White House National Cyber Workforce and Education Summit July 2022

"The event focused on building our Nation's cyber workforce, improving skills-based pathways to cyber jobs, educating Americans so that they have the skills they need to thrive in our increasingly digital society, and improving Diversity, Equity, Inclusion, and Accessibility (DEIA) in the cyber field. Bringing together entities who employ, train, and educate cyber professionals and Americans at large, the event involved senior U.S. Government officials, senior executives from the private sector, and thought leaders from across the cyber community and the education sector."

White House Fact Sheet: https://www.whitehouse.gov/briefing-room/statements-releases/2022/07/21/fact-sheet-national-cyber-workforce-and-education-summit/





THE WHITE HOUSE National Cyber Workforce and Education Summit

July 2022

Fortinet's announcement at the White House National Cyber Workforce and Education Summit

Fortinet is making the new Fortinet Security Awareness and Training service available for free to K-12 schools across the U.S.

"The expansion of its free training offerings provides the potential to help **more than 8 million staff and faculty members in U.S. schools** become more cyber aware and improve their skillsets to avoid breaches at educational institutions." July 19, 2022 at 9:00 AM EDT

FRTINET.

Fortinet Announces Free Training Offering for Schools at White House National Cyber Workforce and Education Summit

Free Training Service for more than 8 Million Staff and Faculty Across U.S. School Districts will Advance Fortinet's Mission to Close the Cyber Skills Gap

SUNNYVALE, Calif., July 19, 2022 (GLOBE NEWSWIRE) --

Sandra Wheatley, Senior Vice President, Customer Marketing, Threat Intelligence and Global Influencer Communications at Fortinet

"Fortinet is proud to participate in the White House National Cyber Workforce and Education Summit to share our expertise and insight based upon our longstanding dedication to closing the cyber skills gap through cross sector collaborations and dialogue. Since the establishment of the Fortinet Training Institute in 2016 and through our Training Advancement Agenda (TAA) initiatives, Fortinet continues to make cybersecurity opportunities accessible to more people, including populations who are often overlooked such as women, minorities and veterans, through training. Today, as part of our pledge to train 1 million people in cybersecurity across the next five years, Fortinet announced a new free training offering to help combat attacks on our educational institutions."

Fortinet Press Release: https://investor.fortinet.com/newsreleases/news-release-details/fortinet-announces-free-training-offeringschools-white-house



The Need

Individual Awareness is Low

In the last 12 months, the "human element" has been involved in

85%

of breaches, and in nearly half of them (36%) phishing was the primary mode of attack.

Gartner®, Market Guide for Security Awareness Computer-Based Training, Richard Addiscott, Claude Mandy, William Candrick, 26 July 2021

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Which of the following barriers inhibit your school from adequately defending against cyber threats?



Cybersecurity Insiders: FORTINET 2021 APPLICATION SECURITY REPORT

What's Included

What's Included: Premium Service

Created by the Fortinet Training Institute, the Fortinet Security Awareness and Training service helps schools build a cyber-aware culture where teachers and staff can recognize and avoid falling victim to cyberattacks.

Purpose-built aligned to NIST-800-50 and NIST 800-16 Guidelines



Designed by Security Experts

High Quality Security Training



Engaging Communication & Reinforcement Resources

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Easy to Use

Administration &

Management

Training Campaigns Overview			
6 Interferences 0 Interference	613		4%
Training Campaign Setats	Tel como 1	-	
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that Action	-		
Parameter Promotion	10		
(Annual Security	-		
End Boards	-		
	10		
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Active

Monitoring &

Reporting

Co-

Co-branded for your district

Your

Brand

Here

Training tailored to the Education Sector





There has been an alarming growth of sophisticated

phishing attacks that target educational institutions.



Lesson Objectives

- Describe the risks associated with social media
- Understand some of the
 common vulnerabilities associated with social media
- List actions that you can take to secure your social media accounts



Key Concepts Offline Risks



Home Security

Your home security can be at risk due to the content that you share on social media.

If you post content related to when you're going on vacation, trip photos, or tag locations in your posts, a bad actor can determine when you're away from home and use that opportunity to compromise your home security.

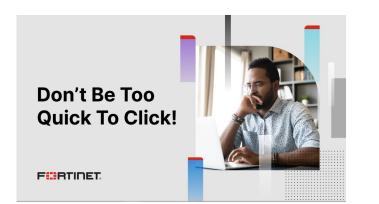
Education Focused Communication Resources

Reinforce key teachings from training modules

Banners – various sizes



Screen Savers – 6 versions



Posters – 6 versions



Be Unique!

Your login credentials are keys for cybercriminals! Create a strong passphrase for all your important accounts. Change default passwords on all your devices.

FORTINET.

Tip Sheets - 2 versions



Key Benefits





Ensure faculty and staff are aware of data privacy and security and are motivated to protect personally identifiable information and other sensitive data types.



Colleen Flannery Chief Technology Officer

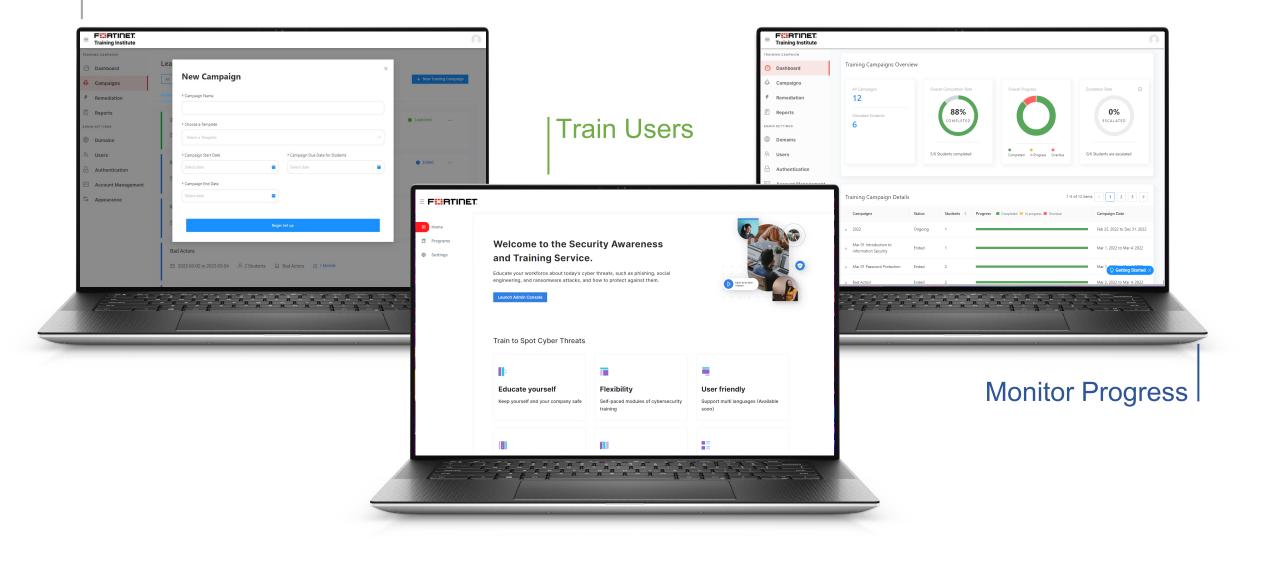


About the Service



Fortinet Security Awareness and Training Service

Build Campaigns



Service Features

	STANDARD	PREMIUM
HIGH QUALITY SECURITY AWARENESS AND TRAINING ALIGNED WITH NIST 800-50 NIST 800	0-16	
Base Training Modules	7 base modules	23 base modules
Micro Training Modules	5 micro modules	10 micro modules
Nano Learning Videos	7 nano videos	18 nano videos
Learning Reinforcement Resources: Posters, Banners, Tip Sheets, etc.	\checkmark	\checkmark
Role-based Training for End-users, Managers and Executives	\checkmark	\checkmark
ADMINISTRATION AND MANAGEMENT		
Planning and Deployment Training for Admins	\checkmark	\checkmark
Quarterly Top Threat Signals Report for Admins (Powered by FortiGuard Labs)	\checkmark	√
Create, Update and Deactivate Users Manually or with an Import File	\checkmark	√
Two-Factor Authentication (2FA)	\checkmark	✓
LDAP Integration		√
Single Sign-On (SSO)		✓
Co-branding		✓
Role-based Hierarchical Registration		✓
MONITORING AND REPORTING		
Up-to-date Dashboard of User Activity	✓	√
Out of the Box Reports for Admins and Executives	✓	√
Flexible Report Builder for Custom Reporting	\checkmark	√
Schedule and Export Reports	\checkmark	\checkmark

Awareness Resource Topics

Nano Videos

Shoulder Surfing
Tailgating
See Something, Hear Something, Say Something
Follow Company Policy
Avoid Unknown Wi-Fi Networks
Good Password Hygiene
Think Before You Click
Web Conference Tips
Travel Tips
Back Up Your Data
Data Disposal
Disable Automatic Wi-Fi
Encrypt Sensitive Data
Enable Screen Locks
Update Your Software
Protect Your Devices
Non-discoverable Bluetooth
Use Multi-Factor Authentication

Posters, Tip Sheets and Screensavers

Be Aware No Tailgating
Lock Before You Leave
See Something, Hear Something, Say Something
Don't Be Too Quick to Click
Free Wi-Fi Comes with a Price
Be Unique Your Login Credentials Are Keys for Cyber Criminals
Insider Threats
Mobile Security



Learner Portal and Administrative Console





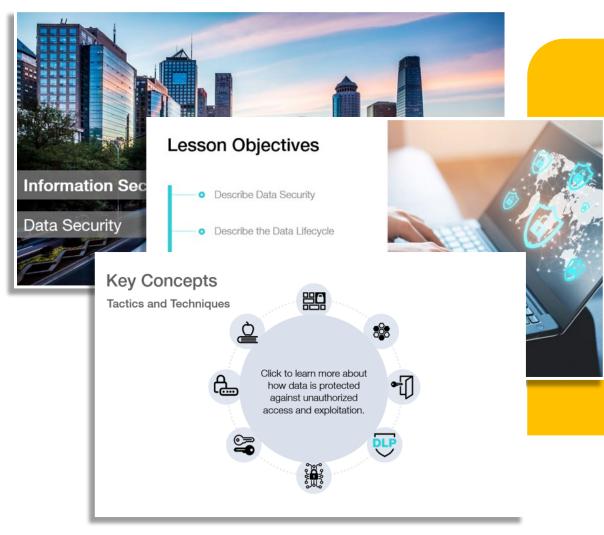
Learner Portal

Home Programs Settings	Welcome to the Information Security Awareness and Training Service. Start here to learn about IT security, information security, how to stop hackers, and how to avoid being hacked.		
	My Learning Information Security Awareness Bas Due on: July 11th, 2022 5 modules left to complete	ed Program	25%
	Password Protection ()	Video (3min)	uiz (5 questions)
	MFA 🔒	() Video (5min)	uiz (3 questions)
	Social Engineering	(b) Video (5min)	uiz (3 questions)
		**	

- Learners can view:
 - The modules they need to take
 - Their status as they progress through the modules
 - The modules that are over-due
 - The mandatory quizzes
 - A list of completed training modules on PC, Tablet or Mobile
- Admins can:
 - Customize the program using existing templates
 - Customize welcome or program introduction message
 - Schedule programs with start, end, and due

Training Modules & Videos

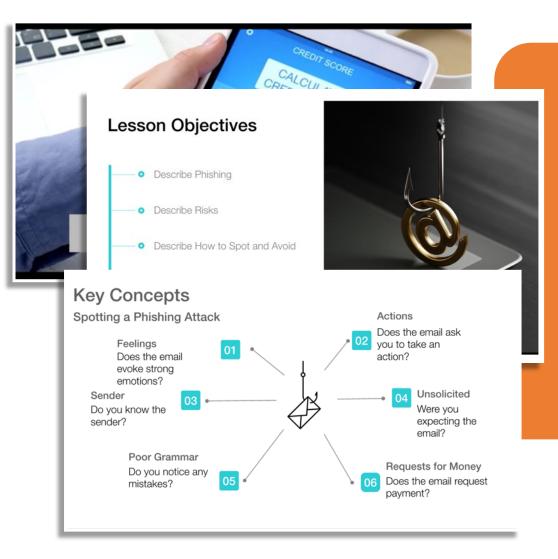
Multi-Modal Learning



- Training in multiple formats to appeal to different learning styles: video, text, images, audio, animation
- Training modules cover Security Awareness, Data Privacy, Internet Security, Password Protection and Physical Security
- Training addresses the information security needs for GDPR, PCI DSS, SOC 2, PIPEDA, CCPA, ISO/IEC 27001
- Interactive quizzes and knowledge checks
- Base modules, micro training and nano training introduce, engage, re-engage and reinforce—train throughout the year

Engage Employees with Effective Training

Created by a team Fortinet security and training experts.



Created by the award-winning Fortinet Training Institute

- Over a million certifications issued
- Team of security experts, e-learning developers and trainers created the solution following proven adult learning methodology

Training modules are high quality, focused, market-driven and responsive

 Solution is purpose-built to address customer need while removing all the excess that makes other solutions expensive and cumbersome to deploy

Admin: User Provisioning & Management

Users			· 옷 A	dd New User 🔗 Import via C	SV File & Import via LDA
Opdate succes	ss. You can check all uplo	aded users here.			
First Name	Last Name	Email Address	Department 🔶	Title 🌲	Action
Firstname	Lastname	example@email.com	Department 1	Job Title	Edit Delete
Firstname	Lastname	example@email.com	Department 1	Job Title	Edit Delete
Firstname	Lastname	example@email.com	Department 1	Job Title	Edit Delete
Firstname	Lastname	example@email.com	Department 1	Job Title	Edit Delete
Firstname	Lastname	example@email.com	Department 1	Job Title	Imported users can't be edited or deleted
Firstname	Lastname	example@email.com	Department 1	Job Title	Edit Delete
Firstname	Lastname	example@email.com	Department 1	Job Title	Edit Delete
Firstname	Lastname	example@email.com	Department 1	Job Title	Edit Delete
Firstname	Lastname	example@email.com	Department 1	Job Title	Edit Delete

- Create, update or manage users manually, with an import file or LDAP integration
- Role-based hierarchical registration with manager roles
- Single-Sign-On
- Two-factor authentication (2FA)

Campaign Builder

TRAINING CAMPAIGN			
🕑 Dashboard	Learning Carr	×	6
🕹 Campaigns	All Launched last New Campaign	+ New Training Camp	aign
F Remediation	Active Archived + Campaign Name		
Reports			
ADMIN SETTINGS	Secure Travel * Choose a Template	Launched	
Domains	🛅 2022-03-23 Template	×	
段 Users	Campaign Start Date Campaign Due Date for Students		
Authentication	Social Media Select date	Launched	
Account Management	 2022-03-231 Campaign End Date 		
- Appearance	Select date		
	Intellectual Pro	Launched ***	
	🗎 2022-03-23 1 Begin Set up		
	Deploying and Managing the Fortinet Security Awareness and Training Service	Launched ***	
	2022- 2022- A Students Deploying and Managing the Fortinet Security Avareness and Training Service	lodule	
	Cyber Security Framework for Managers	Launched ***	
	🗎 2022-03-23 to 2022-03-25 🛛 A SStudents 🔛 Cyber Security Framework for Managers 🗈 1 Module	Q Getting S	tarted X
		Annual Contractor Contractor	

- Build custom campaigns with selected training modules that will address the needs of the organization
- Getting started, reminder, and course completion emails for learners
- Set-up automation triggers for getting started, re-engagement and remediation training for learners

Admin: Monitoring and Reporting

TRAINING CAMPAIGN				
🙆 Dashboard	Training Campaigns Overv	iew		
Campaigns	All Campaigns	Overall Completion Rate	Overall Progress	Escalation Rate ①
Remediation	12			
E Reports	Allocated Students	88%		0%
ADMIN SETTINGS	6	COMPLETED		ESCALATED
Domains				
冬 Users		5/6 Students completed	Completed In Progress Overdue	0/6 Students are escalated
Authentication				
Account Management				
	Training Campaign Details		1-5	of 12 items < 1 2 3 >
	Campaigns	Status Students	s 🔲 Completed Ň In progress 📕 Overdue	Campaign Date
	» 2022	Ongoing 1		Feb 25, 2022 to Dec 31, 2022
	Mar 01 Introduction to Information Security	Ended 1		Mar 1, 2022 to Mar 4, 2022
	Mar 01 Password Protection	Ended 2		Mar 1 Q Getting Started X
	Bad Actors	Ended 2		Mar 2, 2022 to Mar 4, 2022
			A A A A A A	
		<u></u>		

- Up-to-date dashboard of user activity
- Out of box reports available in pdf format:
 - Individual campaign report
 - Report weekly, monthly or at campaign completion
- Campaign Report for Executives
 - Summary of all campaigns
 - Overall completion rate
 - Progress of all campaigns
- A report builder gives admins the power to create custom reports

Technology Townhall November 2022

Common Practices: Administration Reports

Sahuarita Unified School District



Technology Townhall October 2022

Ed Tech Integration and Resources from ADE

Alecia Henderson, Computer Science/Ed Tech Specialist





Velcome! ABOUT ME

ALECIA HENDERSON K-12 ACADEMIC STANDARDS Computer Science & Educational Technology Specialist Alecia.Henderson@Azed.gov





What's New with the AZ Educational Technology Standards?!



Standards

Standards: What a student needs to know, understand, and be able to do by the end of each grade.

Standards build across grade levels in a progression of increasing understanding and through a range of cognitive demand levels.

Standards are adopted at the state level by the State Board of Education.

Educational Technology Standards

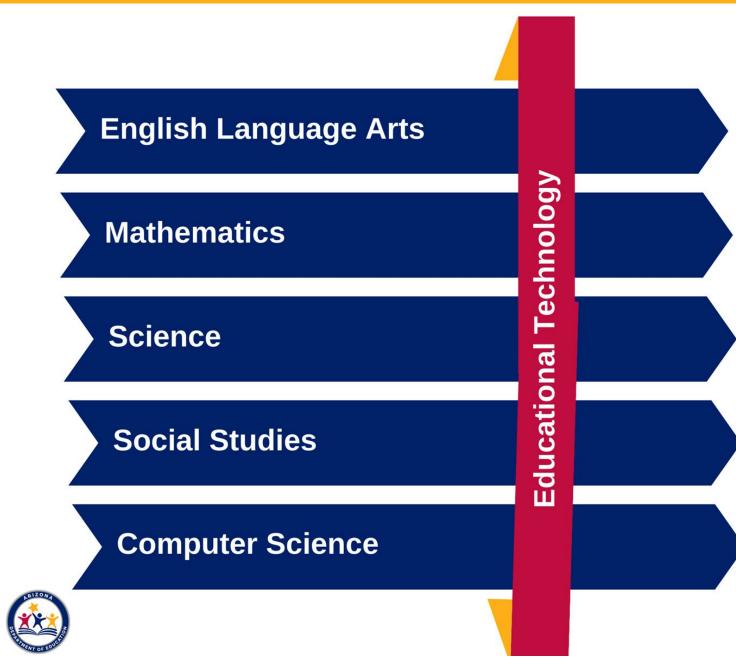
Foundational Resources:

- 1. ISTE Standards for Students
- 2. Washington Educational Technology Standards
- 3. Wisconsin Educational Technology Standards
- 4. Wyoming Educational Technology Standards

Structure:

- 1. K-12 Standard (7 Standards)
- 2. Grade-band Indicators
- 3. Grade-band Sample Student Performances
- 4. Vertical Progression











Standard 5: **COMPUTATIONAL THINKER** What do you think of when you hear the words **"Computational Thinker"?**



Standard 5: 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.

5A 5B	5C	5 D
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What is computational thinking?

Computer Science	Computational Thinking
 Focused on understanding how and why 	An interdisciplinary problem solving process
computers work, the creation of new	Formulating problems in a way that can be
technologies, and the impact of these	understood and solved by both machines &
creations on society.	humans
 Includes the algorithmic design process in 	Representing data through models and/or
both hardware and software	simulations
	Involves decomposition, abstraction, pattern
	recognition, and algorithmic design



Standard 5: Computational Thinker

Standard 5. 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.



What is computational thinking?

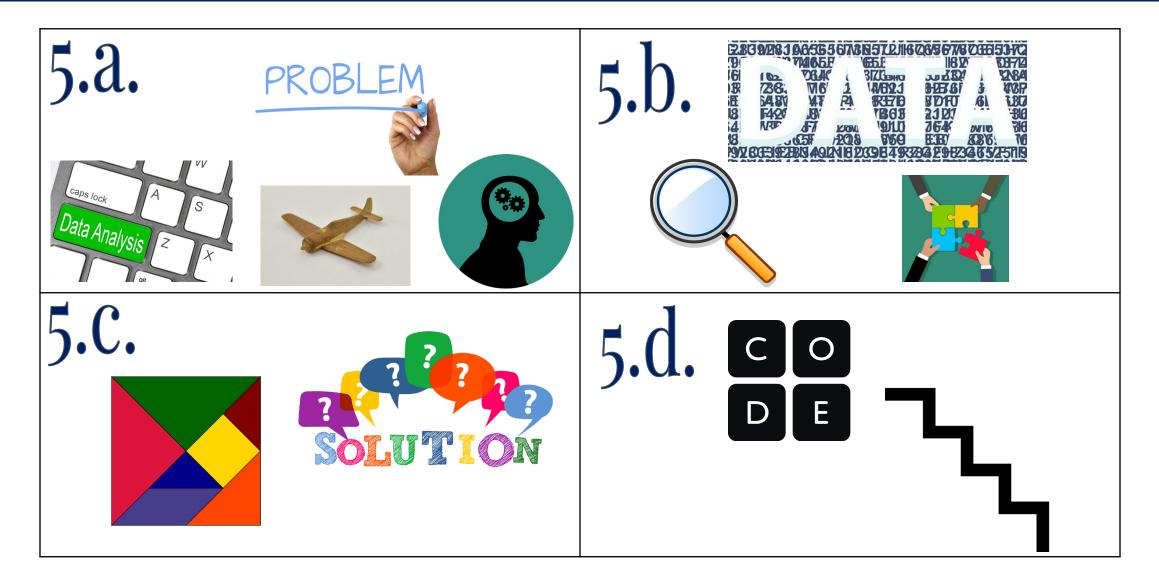
Element	Description
Element 1: Decomposition	 Breaking down complex problems into smaller, more manageable parts 1. Start by having students break down a simple task they do all the time (i.e. brushing their teeth) 2. Introduce them to more complex problems/scenarios that are
	unfamiliar and engaging
Element 2: Pattern Recognition	 Involves mapping similarities and differences or patterns among small problems
	 Introduce by presenting a slide with pictures within a category (i.e. fruits)
	2. Ask learners to map and explain similarities/differences or patterns
	 Primary goal: students understand that finding patterns help them
Contraction of Digital	to simplify tasks
Teaching & Learning	

What is computational thinking?

Element	Description
Element 3: Abstraction	 Filtering out unimportant details, making the problem easier to understand and solve Important for students to be introduced to abstraction in relation to patterns Helps students to create a general idea of what a problem is and how to solve it by removing irrelevant details and patterns
Element 4: Algorithm Design	 Determining appropriate steps to take and organizing them into a series of instructions Includes knowledge from the previous three steps Keep it simple! Use simple functions such as brushing your teeth to get students started



Computational Thinker Indicators





What does this indicator look like in action?

- ^{1.} Add up all of the numbers between 1-200 (30 seconds)
- Let's try breaking the problem into smaller pieces to make it easier to manage: *(decomposition)*
 - a. 200 + 1 = ?
 - b. 199 + 2 = ?
 - c. 198 + 3 = ?
- 3. What do we notice? (all equal 201) (pattern recognition)
- 4. What is the last pair we will find? (100 + 101)
- 5. How many of these pairs will we have? (100 total)
- 6. Now, how can we find the total? (100 x 201)
- 7. What if we wanted to do this trick with other numbers? (algorithmic thinking)

Students understand how automation works and applyalgorithmic thinking to design and automate solutions.

Additional Resources that Support Computational Thinking

- K-12 Computer Science Framework
- STA K-12 Computer Science Standards
- Arizona's K-12 Computer Science Standards
- » ISTE Standards for Educators: The Computational Thinking



Competencies

Mark your calendars! Computer Science **Education Week** December 5-December 9



What is Computer Science Education Week?

CSEd week is an annual call to action to inspire K-12 students to learn computer science, advocate for equity and celebrate the contributions of students, teachers, and partners to the field.





Celebrate CSEd Week with ADE!

CELEBRATE COMPUTER SCIENCE EDUCATION WEEK WITH ADE

WITHADE

How to Host an Hour of Code

No coding experience needed - come join the fun!

Join the movement and introduce your students to computer science with the Hour of Code! In this webinar, participants will learn how to organize an Hour of Code event for their classroom, school, or district by exploring available resources and experiencing lessons for themselves!

Tuesday November 29th 4:30pm-5:30pm

Byte-sized PD - Week of December 5th

Celebrate Computer Science Education Week with a series of 30 minute "Byte-Sized PD"!

Monday December 5th - Dan Schneider - Chapter President of CSTA-AZ Tuesday December 6th - Mr. Leon Tynes - High School Computer Science Teacher Wednesday December 7th - Ms. Allison Davis - Kindergarten Teacher Thursday December 8th - Learning from ADE's CS Team about the Computer Science Endorsement Time: 4:30pm - 5:00pm

Register Today!

Questions? Contact the Computer Science Team

Alecia HendersonSarah SleasmanCS & EdTech SpecialistDirector of Science & STEMAlecia.Henderson@azed.govSarah.Sleasman@azed.gov



Educational Technology Standards Implementation

- Educational Technology Professional Development <u>Sign up here!</u>
- Educational Technology Resources- Padlet Link
- Ed Tech Ambassador Program: ADE & AzTEA- Coming Soon!
- > ISTE Training available through AzTEA





Get Involved with Ed Tech & Computer Science Organizations!







ARIZONA TECHNOLOGY IN EDUCATION ASSOCIATION

This year marks the 20th anniversary of AzTEA. To celebrate, memberships are being offered at a discounted rate of \$20! Click here to join!

INTERNATIONAL SOCIETY FOR TECHNOLOGY IN EDUCATION

Both basic membership and premium memberships are available. For more information, <u>check out the ISTE website.</u>

COMPUTER SCIENCE TEACHERS ASSOCIATION - AZ

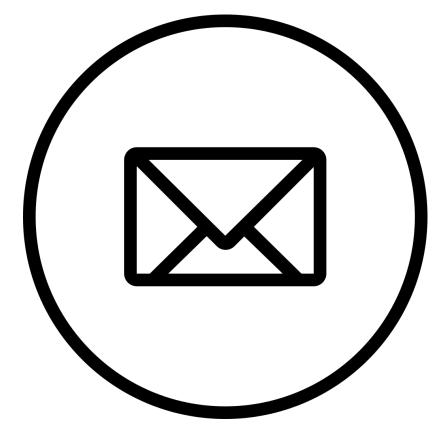
Options include a free CSTA basic membership or a paid CSTA+ membership. <u>See the CSTA website for</u> <u>more information</u>.



Sign up for ADE Listserv!

Educational Technology





Computer Science







Please reach out! I am here to support you!

Alecia Henderson Computer Science & EdTech Specialist <u>Alecia.Henderson@azed.gov</u>

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Announcements

Technology Townhall October 2022

LinkedIn

https://www.linkedin.com/showcase/odtl







Technology Townhall October 2022

Townhall Meeting Materials

https://www.azed.gov/technology/technologytownhall-meetings







Next meeting: February 13, 2023 1:00-3:00pm MST

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