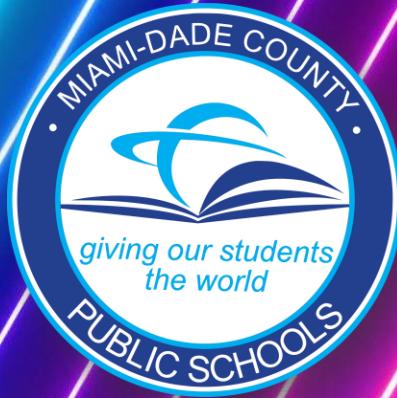




2025 EdTECH Progress Report

Miami-Dade County Public Schools





PROGRESS POINTS



**Network
Infrastructure**



**Instructional
Technologies**



**Artificial
Intelligence**



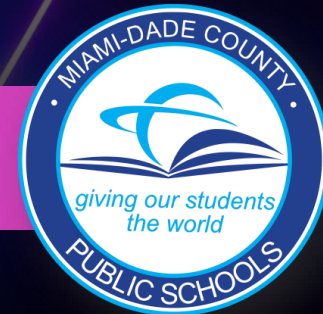
**EdTECH
Initiatives**

*giving our students
the world*



Network Infrastructure

2025 EdTECH Progress Report | M-DCPS





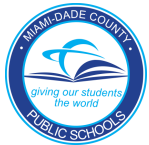
M-DCPS Network

Current Status

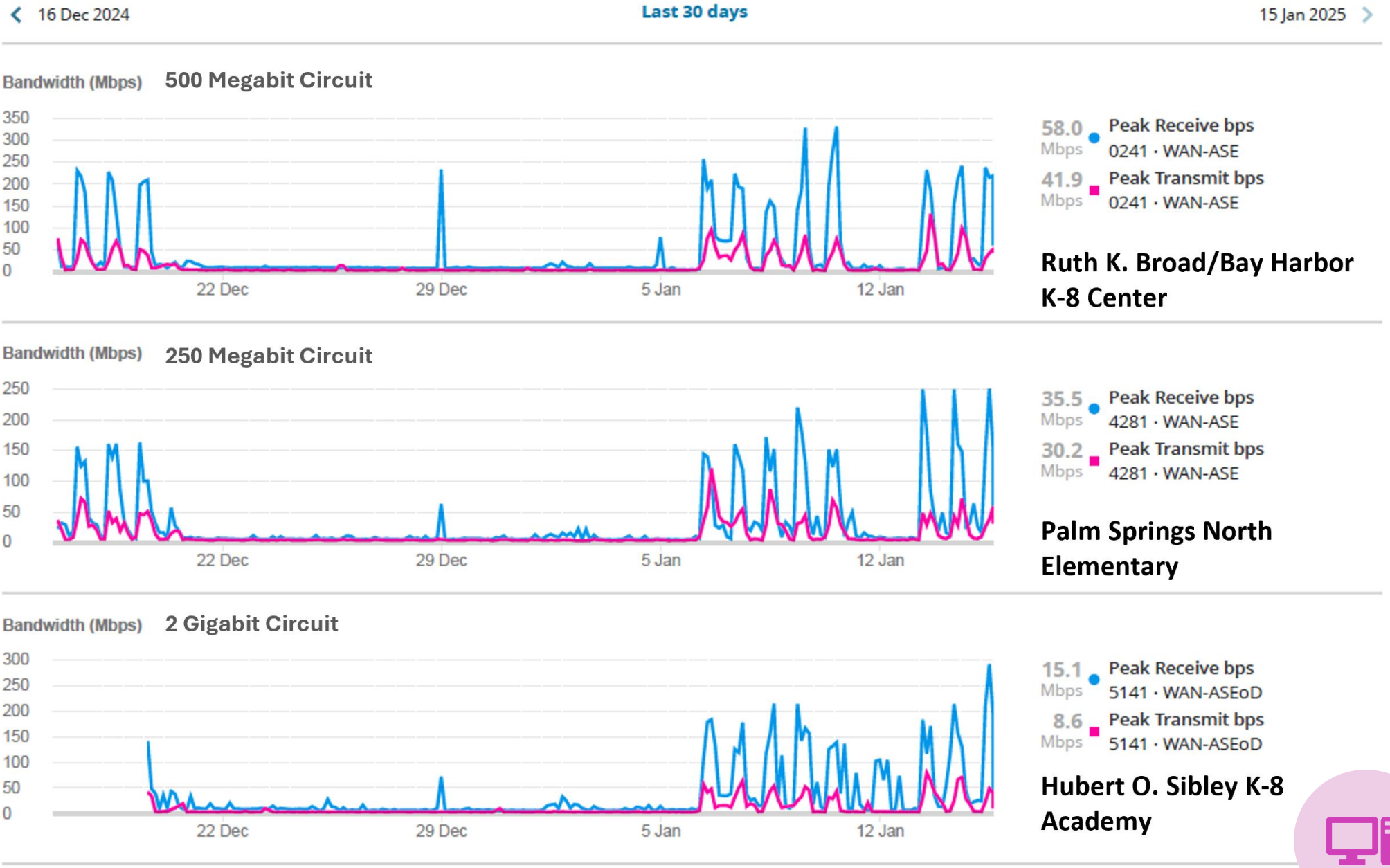
School Site Infrastructure Upgrades			
CATEGORY	COMPLETIONS	PENDING	STATUS
Wireless Systems (Wi-Fi VI Standard)	347	33	Balance of schools will be completed with E-rate FY2025
Routers	351	29	Balance of schools will be completed with E-rate FY2025
Uninterruptable Power Supply (UPS)	364	16	Future upgrades will be completed as needed using E-rate funds.
Network Infrastructure Switches	87	293	Future upgrades will be completed as needed using E-rate funds.
VOIP Telephone Systems	192	188	All systems have been purchased and pending installations
School Site Servers	344	0	Smaller schools are currently sharing server services.



Current Monthly Bandwidth Usage for Sample Elementary, Middle and High Schools on a Typical School Day



Sample Elementary Schools Monthly Bandwidth Trend

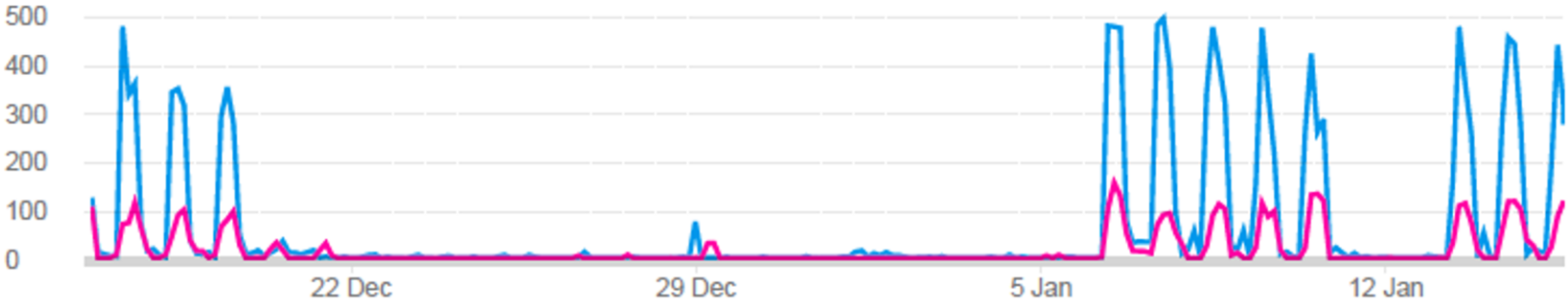


Current Monthly Bandwidth Usage for Sample Elementary, Middle and High Schools on a Typical School Day



Sample Middle Schools Monthly Bandwidth Trend

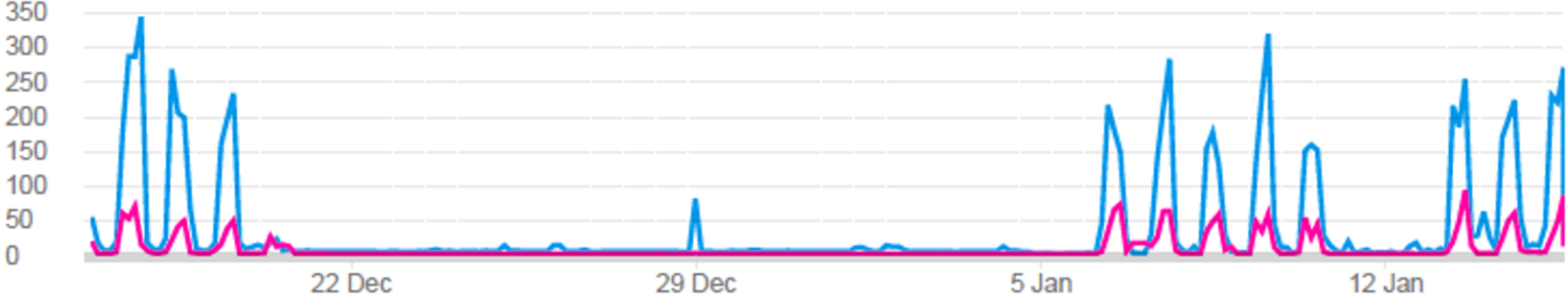
Bandwidth (Mbps) 500 Megabit Circuit



277.5 ● Peak Receive bps
Mbps 6231 · WAN-ASE
119.1 ■ Peak Transmit bps
Mbps 6231 · WAN-ASE

Hialeah Middle School

Bandwidth (Mbps) 250 Megabit Circuit



19.8 ● Peak Receive bps
Mbps 6351 · WAN-ASE
12.5 ■ Peak Transmit bps
Mbps 6351 · WAN-ASE

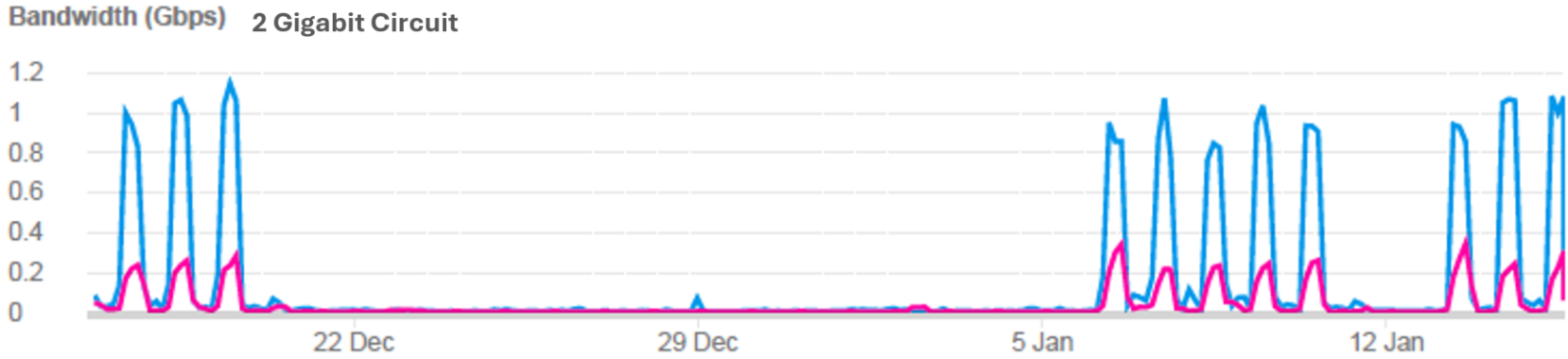
Lake Stevens Middle School



Current Monthly Bandwidth Usage for Sample Elementary, Middle and High Schools on a Typical School Day

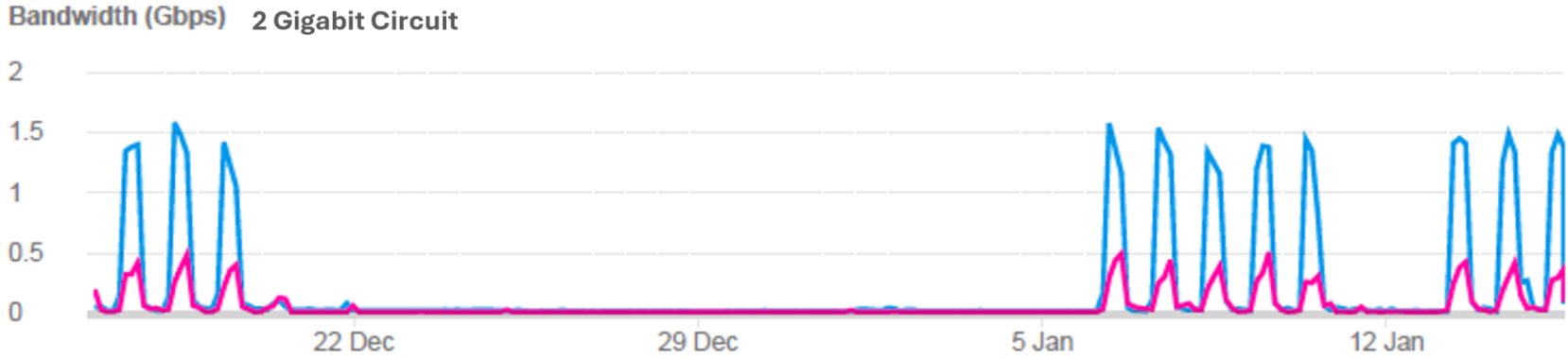


Sample High Schools Monthly Bandwidth Trend



0.2 Gbps Peak Receive bps 7101 · WAN-ASEoD
 0.1 Gbps Peak Transmit bps 7101 · WAN-ASEoD

Coral Reef Senior High School



0.1 Gbps Peak Receive bps 7121 · WAN-ASEoD
 0.1 Gbps Peak Transmit bps 7121 · WAN-ASEoD

John A. Ferguson Senior High School



Current Bandwidth Usage Trends

- The data suggests a clear distinction between peak and off-peak usage times, with the network experiencing higher loads during the school day.
- Our SolarWinds Management Tool allows us to analyze and make business decisions related to bandwidth.
- The ASE On-Demand project will increase bandwidth for all schools and allows us to increase bandwidth in real time, as needed.
- Effective use of traffic shaping allows us to ensure equitable access to available school bandwidth, prioritizing instructional use. Our existing system allows for the efficient use of non-essential traffic, helps identify traffic with high bandwidth consumption and make real-time decisions based on school traffic patterns.



Sustaining Technology Infrastructure & Investing in Technology Longevity

Details regarding our technology infrastructure sustainability and investments in technology longevity are comprehensively addressed within our Information Technology (ITS) Roadmap. This roadmap outlines our approach, including:

Modernization strategies:

How we are transitioning off the mainframe to more resilient and efficient systems.

Security Measures:

The steps we are taking to protect our digital assets.

Investment Priorities:

Where we are allocating resources to ensure long-term technological stability.

Future Proofing:

Planning for emerging technology.



Technology Advisory Committee Recommendations: STATUS

Current staffing efforts to improve the recruitment and retention of qualified staff in a competitive job market, including exploring managed services to fill gaps:

- We are using managed resources to augment the current ERP technical staff, development team and support for the mainframe.
- Working with the Office of Human Capital Management (HCM) on a new organizational structure, job descriptions and alignment of salaries.

The progress in establishing technology standards every five years to ensure alignment with the latest advancements and best practices:

- The district's current IT roadmap provides:
 - Short-term initiatives focusing on foundational elements like student information systems, infrastructure upgrades, and security measures. These are areas where existing standards are being implemented and refined.
 - Long-term initiatives introducing more advanced technologies like AI, ERP system upgrades, and enhanced identity solutions.

Staffing and support for managing mobile devices and other school technology initiatives on-site, using data-driven insights to guide improvements:

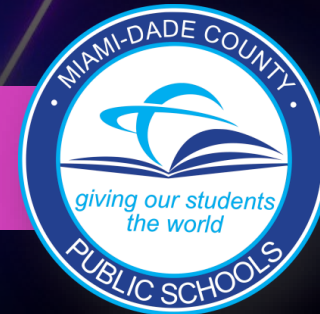
- Reimagining the role of the Site Based Technician (SBT) to take on a more active role in supporting instructional applications in the classroom and supplementing the support of curriculum support specialists (CSS).
- We are partnering with Instructional Technology to develop a training plan to prepare SBTs to confidently support teachers and students using advanced classroom technology, such as virtual reality and robotics.





Instructional Technologies

2025 EdTECH Progress Report | M-DCPS

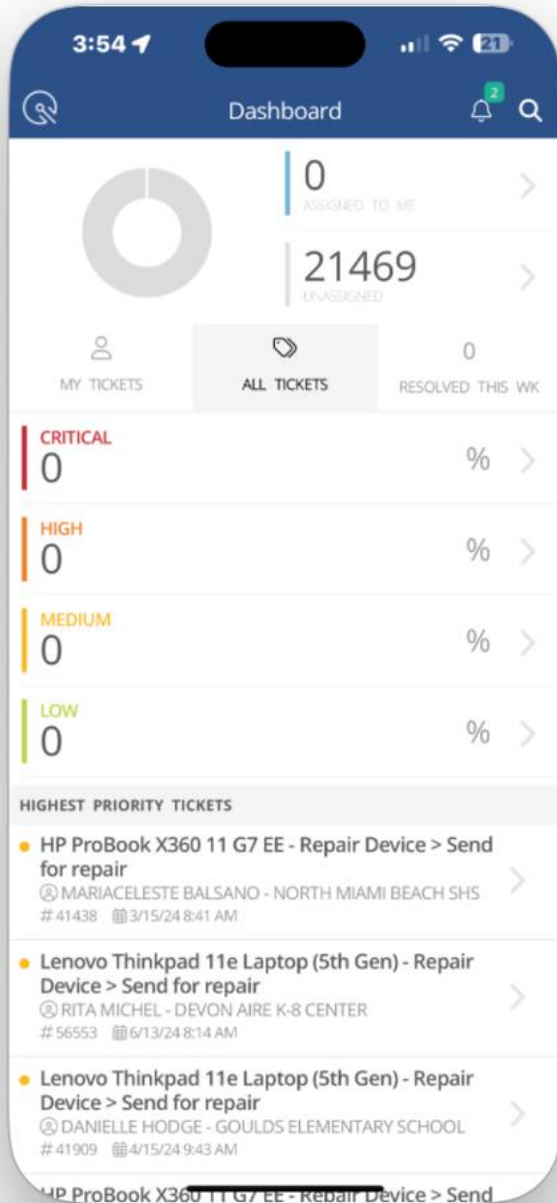


Future Acquisitions | Laptops

Mobile Devices for Students/Teachers

Processor	Intel® N100 Quad Core Processor (6M Cache, 1.8 GHz with Burst up to 3.4 GHz) or higher e.g. N200 or i3
Memory	8 GB LPDDR4x-2933 MHz RAM or better
Video	Intel® UHD Graphics or better
Storage	128GB or larger NVMe M.2 PCI Express SSD hard drive
Weight	3.5 lbs or less
Battery	8+ Hours Minimum run time Lithium-Ion
Wi-Fi	802.11ax Dual-band 2x2 "high efficiency" WIFI 6 with MU-MIMO or better
Bluetooth	Bluetooth® 5.2+ LE (Bluetooth Low Energy) or better
Audio	Integrated Chipset Audio or better
O/S	MS Windows 11 Pro (64 Bit) Operating System or Chrome OS 133 or better
Imaging	Apply M-DCPS approved image prior to delivery
Bundled Software	Google CEU (Chrome Educational Upgrade) license with each device for the management of Chrome OS Flex. (an unassigned and uninstalled Chrome Flex license for use on any device at the District's discretion)
Form Factor	Convertible notebook that allows the device to switch between laptop, tablet, and tent forms.
Protection	Ruggedized casing or protective bumper that has been tested in accordance with MIL-STD-810G or better. Corning Gorilla Glass display, Spill-resistant anti-pick keyboard (key caps should be resistant to prying)
Webcam	720p or better student facing video/still camera
Ports	USB-C 3.2 Gen 1 Power Delivery 3.0 (supports DisplayPort 1.2 Alt Mode) HDMI, USB 3.2 Gen 1
Audio	2+Watt Speaker, 3.5mm headphone/microphone jack(s)
Asset Tag	UV printed tags that must be scannable by bar code scanners. Minimally the serial number in text and Code 39 barcode, District logo, and any other information as specified by the District format, including font and font size, must be approved by District. Must be resistant to water, scratches, fading, heat, and abrasion,
Electrical	Aside from any optional OEM charging port, laptop must be able to be powered and charged through the USB-C type connector. Must be Underwriters Laboratory (UL) Listed.
Screen	11.6 inch or larger diagonal multi-touch capacitive touch display capable of operating with the attached keyboard -1366 x 768 minimum resolution or better
Warranty	Onsite Warranty: 5 Year Device / 3 Year Battery





Fleet Statistics

375,975 Total Units
158 Models

72,841 STUDENT CHECKOUTS
211,745 DEVICES IN SCHOOLS
284,586 OPERATIONAL UNITS

CURRENTLY ~ 1:1 DEV/STU RATIO

Computers

Chromebooks	2,252
iPads	16,155
Laptops / Notebooks	333,846
MacBooks	1,434
Tablets	22,288
Beyond Economic Repair	432
In Repair	19,274
Lost	2,673
Not Returned by Student	8,853
Operational	284,586
Recycled	20,353
Stolen	535
To Be Recycled	37,684
Unlocated	1,585
Grand Total	375,975



We currently have 182 schools that are pending the replacement of the Interactive White Boards (2014) with panels.

Existing Interactive White Boards: 10,197
Total panels already installed: 1,630

Pending Boards: 8,567

Approximately 1,470 new Panels will be delivered to schools in the coming months.

Goal: Achieve a 40:1 minimum student/panel ratio at schools.

132 schools will be impacted



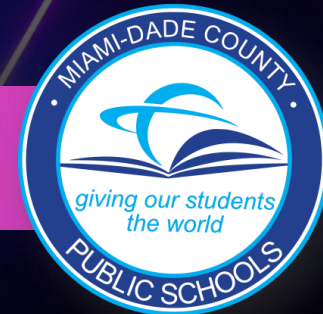
- All employees can now host **multiple simultaneous** virtual meetings
- Meetings last up to **24 hours**
- Up to **1,000** participants per meeting
- Both **Internal & External**
- Auto Attendance Tracking, Recording, Multi-lingual transcripts, **Multi-lingual live closed captioning translations.**
- On-The-Go Mode, Breakout Rooms, Enhanced Safety Controls
- Livestream up to **100,000** within Dadeschools
- YouTube Live for external Livestream
- **AI-Enabled** Note taking, tasking, summaries, and image touchup





Artificial Intelligence

2025 EdTECH Progress Report | M-DCPS



AI Institute

- Live Sessions
- Micro-Dosing
- Over 40 Courses
- Over 1,000 Institute Graduates by June 2025
- Mini-Term for Admin Asst, Clerical, Support during Summer 2025.



Stream Classwork People Grades

Artificial Intelligence Institute

MDCPS AI Institute: Cohort 25- 1
Spring 2025

QUICK LINKS

+ Add link

Meet

Join

Visible to students

Class code

Announce something to your class

DAWN GARCIA
Feb 27
Hi, is there a class today?

Add class comment...

ROSARIO RODRIGUEZ



Gemini 2.0



Gemini **Advanced** ▾

2.0 Flash

- ◆ Gemini Advanced
 - 2.0 Flash Thinking Experimental
Best for multi-step reasoning
 - 2.0 Flash
For everyday tasks, plus more features ✓
 - 1.5 Pro with Deep Research
Get in-depth answers
 - 2.0 Pro Experimental
Best for complex tasks

All employees have access to Gemini 2.0 using their Dadeschools credentials.

All Principals, Executive Directors, District Directors, Administrative Directors, Senior Staff, and Cabinet have access to Gemini Advanced with multi-modal processing capabilities.


Professional Learning is on-going

AI-Enhanced Document Libraries

Welcome to NotebookLM Plus

My Notebooks

+ Create new

 ⋮


Board Policies

Jan 2, 2025 · 17 sources

 ⋮


Data Analysis

Mar 19, 2024 · 1 source


 ⋮


Headlines

Mar 19, 2024

 ⋮


MSAP 2024

Oct 11, 2024 · 2 sources 

 ⋮

Parent Choice Expo

Apr 14, 2024 · 1 source

 ⋮


Reservations

Jan 2, 2025

Analytics Share Settings

Studio

Audio Overview

 Click to load the conversation. Load




Interactive mode BETA

Notes

+ Add note

Study guide Briefing doc

FAQ Timeline

-  **M-DCPS STEM Nexus Project: Magnet Schools Assistance Program 2024**
Here's a detailed briefing document summarizing the key themes and ideas from the provided excerpts of the "Whole Uploaded Grant Packet.pdf": Briefing Document: Miami-Dade County Public Schools (M-DCPS)...
-  **MSAP Grant Application: Miami-Dade County Reader Discrepancies**
The technical review forms from the U.S. Department of Education offer different perspectives on the application submitted by the School Board of Miami-Dade County, FL (S165A240037) for the Magnet Schoo...
-  **M-DCPS STEM Nexus Project: Magnet Schools Assistance Program 2024**

Gemini for teens

- 9th-12th Grade Students
- AI Learning Assistant



Gemini for teens

NOW ACCESSIBLE FOR GRADES 9-12 ON M-DCPS DEVICES

GEMINI.GOOGLE.COM
STUDENTS LOGIN USING STUDENTID@STUDENTS.DADESCHOOLS.NET
FACULTY LOGIN: EMPLOYEE@DADESCHOOLS.NET

Ask Gemini

Gemini is like having a personal tutor and study buddy available 24/7, right at your students' fingertips!

Homework help: From explaining tough concepts in science to providing step-by-step solutions in math, Gemini can make homework less stressful.

Writing assistance: Need to write an essay? Gemini can help with research, creating outlines, and even give tips on writing style.

Gemini helps your student understand the "why" behind things and encourages deeper learning. Think of it as the newest search engine tool that can help your student learn more effectively and explore their interests in a whole new way.



Need Help Using Gemini? Visit <https://innovationschoolchoice.com/gemini>

Gemini for teens

Welcome to the future of learning! Gemini for Teens is your personal AI assistant, here to help you succeed in school and beyond. It provides personalized support, interactive exercises, and creative inspiration in an educational environment.

Hello, Steph.
How can I help you today?

What are tips to improve public speaking skills? | Help me pick a book to read based on a genre | Read trip ideas that are kid and pet friendly | Suggest the best apps to use to help with assignments

Your conversations are protected by human reviewers to improve the technology. Apps don't enter anything you wouldn't want reviewed or used.

Enter a prompt here

Teacher ROLE

As a teacher, your role in your students' use of Gemini for Teens is vital. Here's how you can help:

- Consider how Gemini might impact student work and adjust assignments accordingly.
- Focus on higher-order thinking skills that require analysis, evaluation, and creativity.
- Incorporate project-based learning where students use Gemini as a research tool and demonstrate their understanding through presentations or creative outputs.
- Use Gemini for in-class activities like brainstorming, research, or debates.
- Reinforce the importance of academic integrity and responsible AI use, including proper citation.
- Encourage students to use Gemini for personalized learning and to address their individual needs.
- Teach students to evaluate the information provided by Gemini and to form their own conclusions.
- Encourage students to use Gemini to deepen their understanding, not replace their own effort.

Student USES

As a student, your use of Gemini for Teens will be a game-changer! Here's how you can engage:

- Ask clear and specific questions to generate the best solutions and ideas.
- Use Gemini to understand concepts and then do the work yourself. Your work should reflect your own understanding and effort.
- Always give credit to Gemini when you use its information or ideas in your work.
- Be respectful of others online and use Gemini responsibly.

Parent ROLE

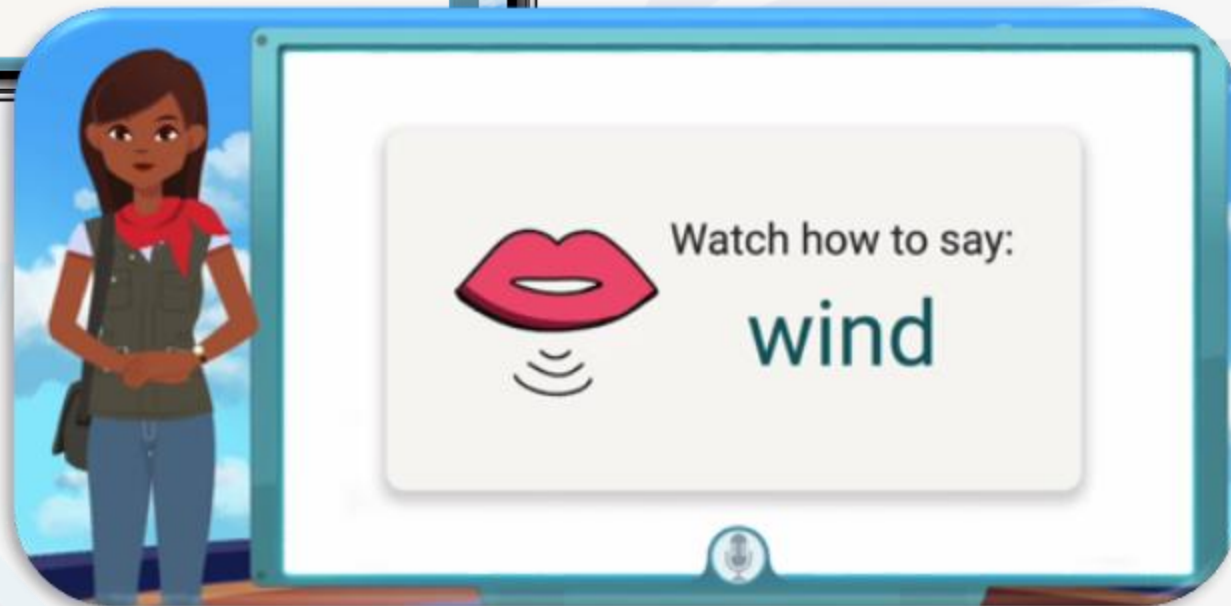
As a parent, your role in your teen's use of Gemini for Teens is vital. Here's how you can help:

- Talk to your teen about what they're learning. Ask them to show you how Gemini works and what they find helpful.
- Encourage them to use Gemini for projects and assignments. But guide them to ensure they truly understand the material and aren't just copying answers.
- Use Gemini together! Explore topics of interest as a family, like historical events or scientific concepts.
- Stress responsible AI use and the need to remain ethical when using this new technology.

Access Gemini from any course in Schoology or by visiting Gemini.Google.com

Need Help Using Gemini? Visit <https://innovationschoolchoice.com/gemini>





Homework

Find the product.
 $x(2x^4 - 5)$

Simplify the following expression.
 $(z^{10})^2$

Jaiden Smith
Ready ✓



$(6m^2)(m^4)$

Multiply coefficients 6×1

Multiply exponents 2×4

$=6m^8$

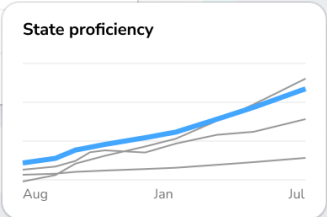
AI Feedback

When multiplying variables with exponent remember to add, not multiply.

Predicted scores

Sophie Lena 48%
Needs help

Add to intervention



The **Reading Coach** is in

An educator's guide to the new Learning Accelerator

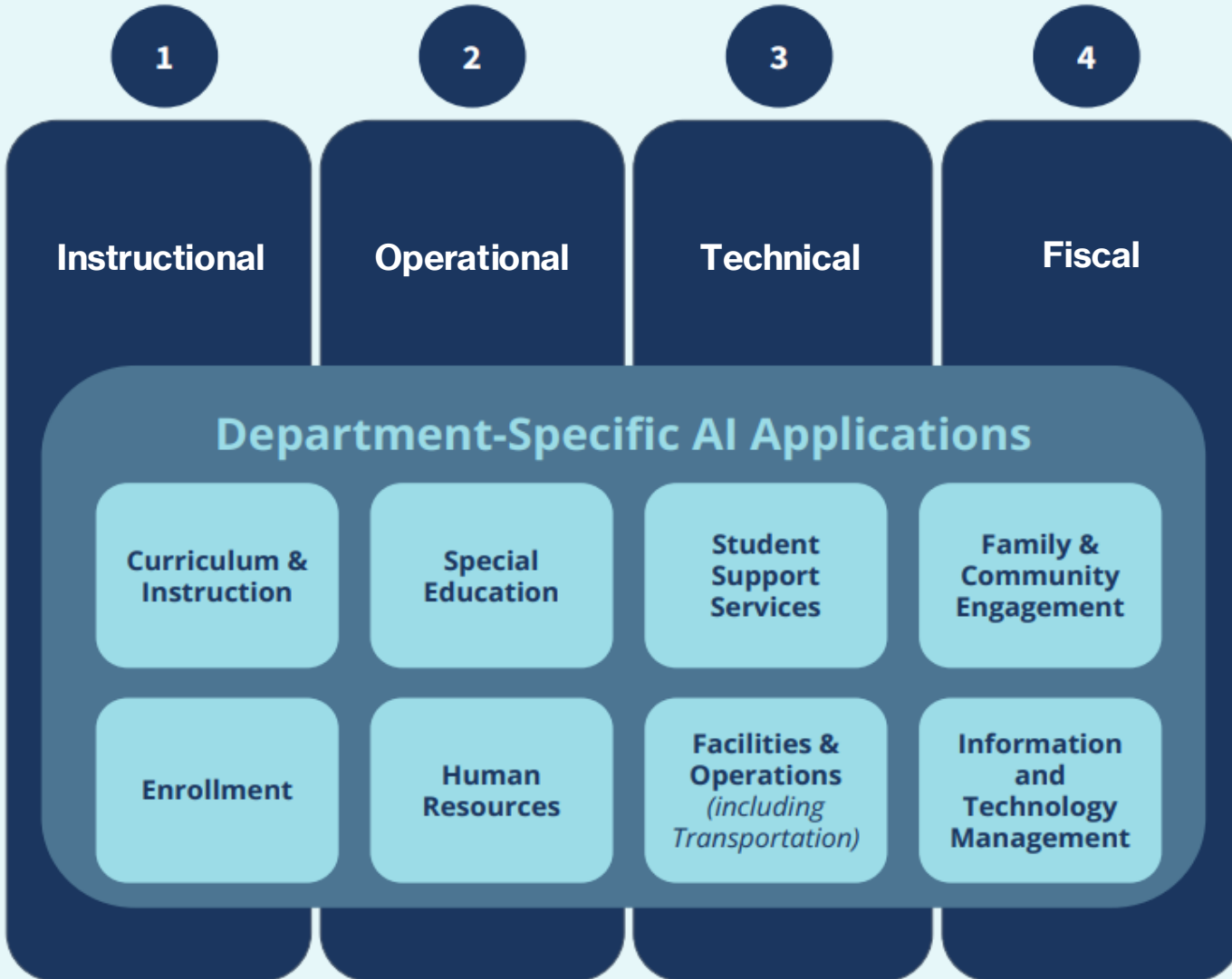
The screenshot shows the Reading Coach interface with the following elements:

- Top Left Callout:** A badge with the number '10' and a trophy icon, with text: **High accuracy!** 10 readings over 90%!
- Header:** A smiling sun icon and the text **Let's practice reading!**. Below it are links for [Home](#) and [My progress](#).
- Left Column:**
 - JUMP BACK IN:** Rover's Fun Galactic Journey (with a dog image).
 - Create a story using AI** (with a star icon).
 - Read a passage from our library** (with a book icon).
 - Add your own passage** (with a pencil icon).
- Right Column:**
 - READING REWARD:** A progress gauge showing '10' and the text 'Minutes to go'.
 - READING STREAK:** A calendar grid for the week (M, T, W, T, F, S, S) with a '5' badge on Wednesday and Friday. Below it, text reads: **Nothing is going to stop us now!** Read 1 more day for a 7-day badge.
- Bottom Right Callout:** A badge with '100' and a star icon, with text: **100% accuracy!** You pronounced every word correctly.

FUTURE

AI DISTRICT DIRECTOR

District-Wide AI Areas of Considerations



MIAMI-DADE COUNTY PUBLIC SCHOOLS

JOB DESCRIPTION

IDENTIFICATION INFORMATION

1. JOB TITLE:	District Director, Artificial Intelligence (AI)
2. DEPARTMENT:	School Choice and Parental Options
3. IMMEDIATE SUPERVISOR:	Administrative Director
4. PAY GRADE:	23
5. JOB CODE:	8154
6. BARGAINING UNIT:	6
7. POSITION AUTHORIZED:	Board Item D-21, October 16, 2024

OCCUPATIONAL SUMMARY

The District Director of Artificial Intelligence (AI) will be responsible for leading the district's strategic implementation of AI technologies to enhance educational outcomes, improve operational efficiency, and foster innovation. This role will require a deep understanding of AI, its applications, and its potential impact on education.

EXAMPLE OF DUTIES

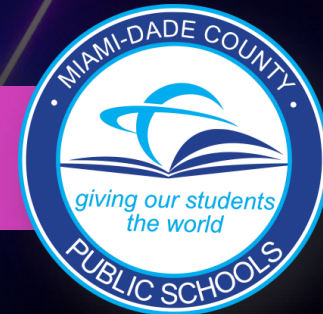
1. Develops and implements a comprehensive AI strategy aligned with the district's overall educational goals and vision.
2. Oversees the integration of AI tools and platforms into various educational domains, including instruction, assessment, administration, and operations.
3. Leads professional learning initiatives to equip educators and staff with the necessary skills to effectively use and understand AI technologies.
4. Utilizes AI to analyze large datasets to identify trends, patterns, and insights that inform decision-making and improve student outcomes.
5. Ensures the ethical and responsible use of AI, addressing issues such as privacy, bias, and transparency.
6. Fosters collaboration with teachers, administrators, and other stakeholders to identify and address challenges and opportunities related to AI implementation.
7. Stays abreast of emerging AI trends and technologies, exploring opportunities to pilot innovative AI applications within the district.





EdTECH Initiatives

2025 EdTECH Progress Report | M-DCPS



Canva for Education Canva Certifications



Canva Essentials

In this 60-minute course, you'll learn to navigate Canva and explore our extensive features and tools.

Teacher Essentials

This certification will equip you with all the essential skills needed to facilitate engaging learning with Canva.

AI in the Classroom

Learn how streamline your lesson planning and supercharge creativity in the classroom with AI tools in Canva.

Complete all 3 Canva Certifications by May 31, 2025 (3 hrs) + 2 hours assigned homework and earn 5 Master Plan Points

[CLICK HERE](#)



Canva

All Employees | All Students
FREE
Rostered & Integrated



XR TECHNOLOGIES

 prisms



COMING SOON
Curio





indi

littleBits

mini

BOLT+

RVR+

blueprint

 sphero

The Best Coding Robots & STEM Education Solutions

Sphero delivers hands-on, immersive learning experiences that are entertaining and educational for PK-12 students *and* teachers. Explore our programmable robots, engineering kits, and curricula that ignite a life-long passion for learning.





indi™

Grades Pre-K-3

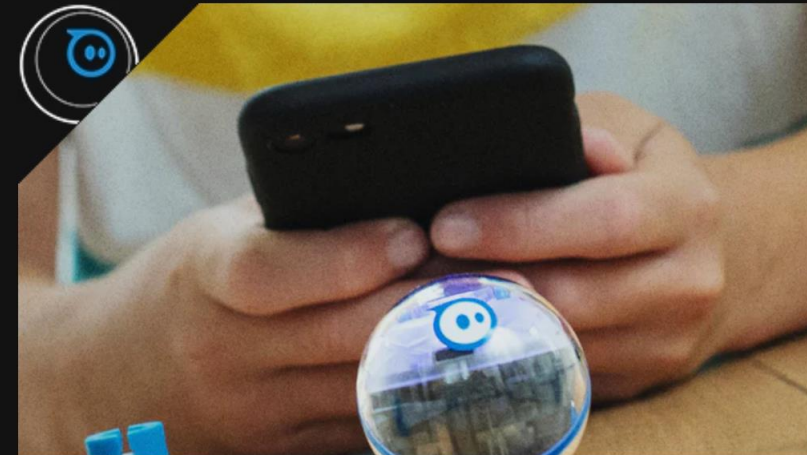
Rev up STEAM with the car-shaped indi robot, perfect for early learners.



littleBits™

Grades 2-7

Bring ideas to life with littleBits. Create inventions and enhance problem-solving skills.



mini

Grades 1-6

Unleash coding fun with Sphero Mini, the desktop-friendly robot that inspires creativity.



BOLT+

Grades 3-10

Electrify learning with BOLT+, the next evolution of our most popular coding robot.



RVR+

Grades 6-12

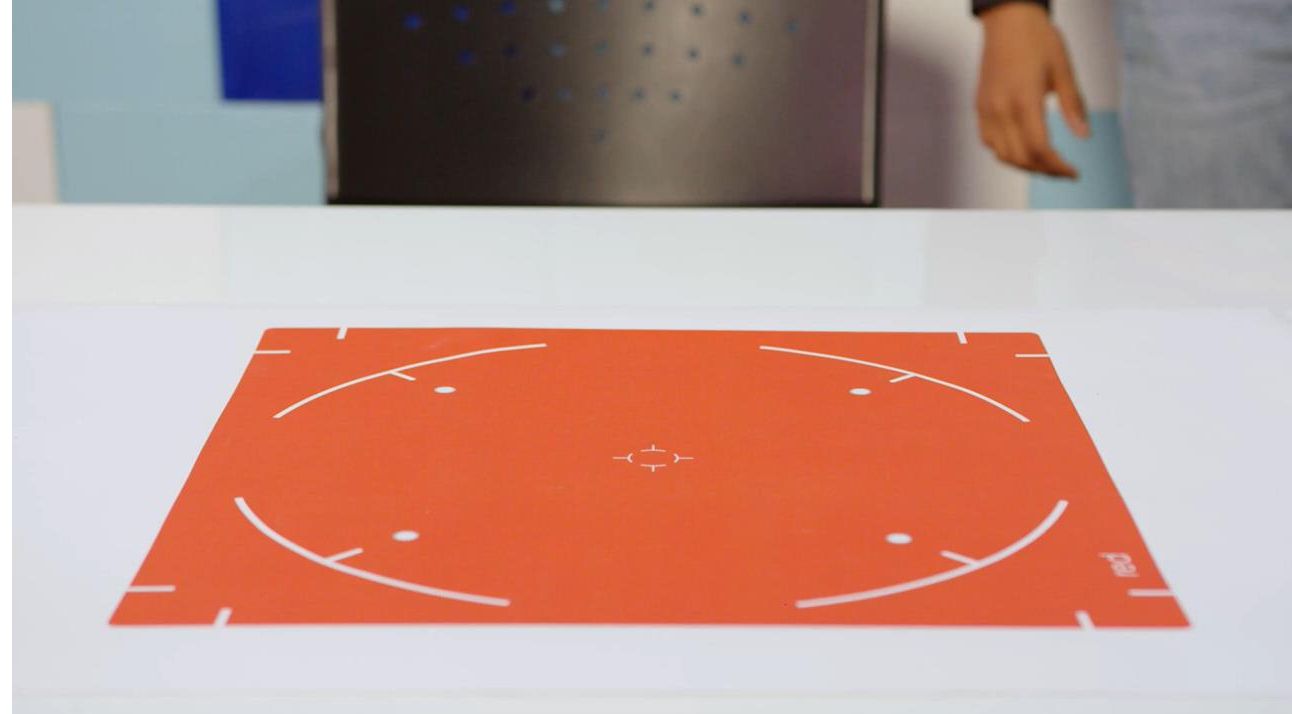
Explore new worlds with RVR+, Sphero's customizable robot ready for any adventure.



blueprint

Grades 7-12

Ignite career-ready skills with Blueprint Engineering for middle and high school learners.



Beginner

 CODRONE W/ PYTHON BEGINNER Pair and Fly! 30 min - 1 hr	 CODRONE W/ PYTHON BEGINNER Flight Movements 30 min - 1 hr	 CODRONE W/ PYTHON BEGINNER Variables 30 min - 1 hr	 CODRONE W/ PYTHON You make decisions in your everyday life, and you can also make a program that can make decisions! In this lesson, you'll learn how conditionals work and use... BEGINNER Conditionals 30 min - 1 hr	 CODRONE W/ PYTHON BEGINNER Loops 30 min - 1 hr
---	--	---	--	---

Intermediate

 CODRONE W/ PYTHON INTERMEDIATE Functions	 CODRONE W/ PYTHON INTERMEDIATE User Input	 CODRONE W/ PYTHON INTERMEDIATE LEDs	 CODRONE W/ PYTHON INTERMEDIATE Lists	 CODRONE W/ PYTHON INTERMEDIATE Timers
--	---	---	--	---





SCHOOL CHOICE ▾

INSTRUCTIONAL TECHNOLOGY ▾

INSTRUCTIONAL MATERIALS ▾

LIBRARY MEDIA SERVICES ▾

DISTRICT INITIATIVES ▾

IT How To Guides

GOOGLE ACCOUNTS


**ACCESSING
YOUR DADESCHOOLS
GOOGLE WORKSPACE**

OPEN THE GUIDE

PASSWORD RECOVERY


**KEEP YOUR
DADESCHOOLS
ACCOUNT SAFE**

SET UP YOUR PASSWORD RECOVERY OPTIONS

OPEN THE GUIDE

BRING YOUR OWN DEVICE


**BYOD
BRING YOUR OWN
DEVICE**
GETTING ONLINE WITH YOUR PERSONAL DEVICE

OPEN THE GUIDE

GOOGLE MEET

LIVESTREAMING

ORIGINALITY REPORTS

Screenshot

Originality Reports in Google Classroom



Unlimited Originality Reports
for Teachers

5

5 Pre-Screen Originality Reports
for Students prior to submitting



Student Work Comparison
plus billions of web pages & over 40 million books



Multiple Language



15-Second Processing



Originality report

COURSE NAME

Google Integration Test Course: Section 1

STUDENT NAME

JEANNETTE TEJEDA

FILE NAME

JEANNETTE TEJEDA - Quiz: Mastering Google Assignments in Schoology

REPORT CREATED

Aug 13, 2024

Summary

Flagged passages	1	49%
Cited/quoted passages	1	11%

Web matches

docs.google.com	2	61%
-----------------	---	-----

1 of 2 passages

Student passage **FLAGGED**

How do I use these Google tools to make my teaching more meaningful? Learn how to use the built in collaboration features of Google classroom to foster online dialogues with individual students as...

Top web match

How do I use these Google tools to make my teaching more meaningful? Learn how to use the built in collaboration features of Google classroom to foster online dialogues with individual students as...

Student/Teacher Collaboration and Feedback using ... - Google Docs https://docs.google.com/presentation/d/1_9qrCoaC5X1Q2NK9Oz4BuHZmZw8uoPBj_NkMaPBcCYA/htmlpresent

2 of 2 passages

Student passage **CITED**

...students self-evaluate with a rubric or provide peer feedback. This session will also introduce a few Add-ons for Google forms and sheets that will help

Top web match

This session will also introduce a few Add-ons for Google forms and sheets that will help you establish a digital workflow that works for you. 3 of 29

Creator Studios

COMING SOON

Includes:

1. YetiCaster Microphone
2. StreamCam
3. LitraBean LX (qty 2)
4. LogiDock

Laptop Not Included | Schools must dedicate a laptop to the Studio from existing inventory



Broadcast Studio

Includes:

- 1. MevoCam (qty 6)
- 2. Tripod (qty 6)



Google Meet



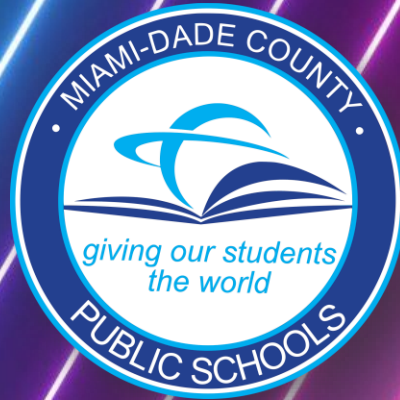
COMING SOON



logitech

1





2025 EdTECH Progress Report