

More than 50% of today's jobs require some technology skills, and experts say that percentage will increase to 77% in less than a decade.

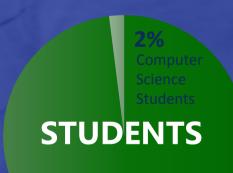
*Source: Pearson VUE 2015 Value of IT Certification Survey: https://home.pearsonvue.com/Test-Owner/Industries-served/value-of-certification.aspx





40%
All other math and science jobs

60%Computer
Science Jobs



Yet only 2% of STEM grads

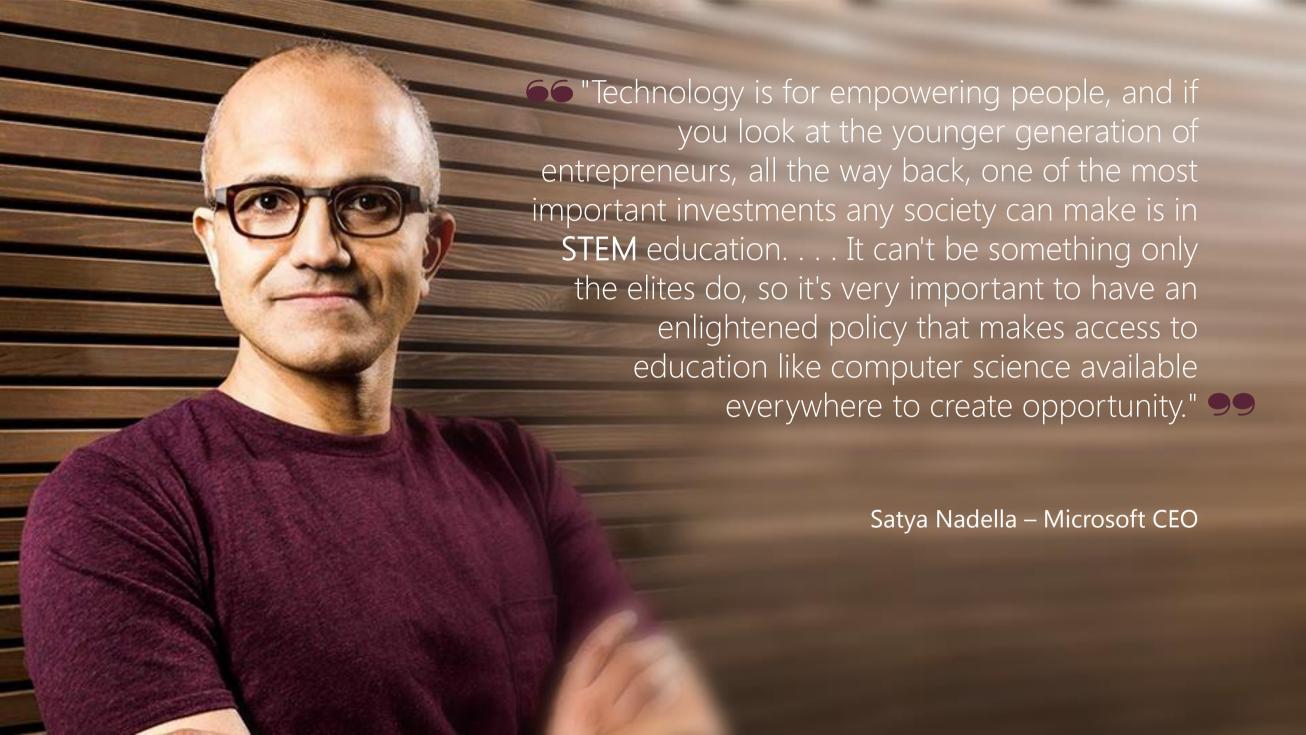
FILL THE PIPELINE

BEYOND TECHNICAL SKILLS

The top 20 most sought-after employability skills



- 1. Oral and written communication skills
- 2. Project management
- 3. Microsoft Office
- 4. Team-oriented, teamwork
- 5. Marketing
- 6. Creativity
- 7. Problem solving
- 8. Detail oriented
- 9. Microsoft PowerPoint
- 10. Integrity
- 11. Self-starting, self-motivated
- 12. Management skills
- 13. Analytical Skills
- 14. Coaching
- 15. Business Process Modeling
- 16. Work Independently
- 17. Strong Leadership Skills
- 18. Management experience
- 19. SAP
- 20. Business requirements gathering



Our strategy

MOVE STEM FORWARD

Policy, Advocacy, Access & Diversity CREATE THE STUDENT JOURNEY

Skills, CS, and STEM Portfolio

3

DEVELOP GREAT EDUCATORS

Community and Professional Development

Our STEM Priority

Policy, Advocacy Computer Science

Skills, CS, and STEM Portfolio

Teacher Capacity







Creating a Student Journey . . .





Jobs Seeking Vendor-specific Skills & Certifications

		cisco.	Google	Adobe Adobe
Alaska	705	30	21	54

Data from leading job search engine indeed.com (March 2017)



Job Demands for Computer Science

Alaska data from not-for-profit *code.org* (March 2017)

607

Open Computing Jobs 18

Computer Science Graduates 60

High school students took AP CS exam (2016) \$82,758

Avg. salary computing jobs in AK

Only 3 schools in Alaska offered the AP Computer Science course 2015-16









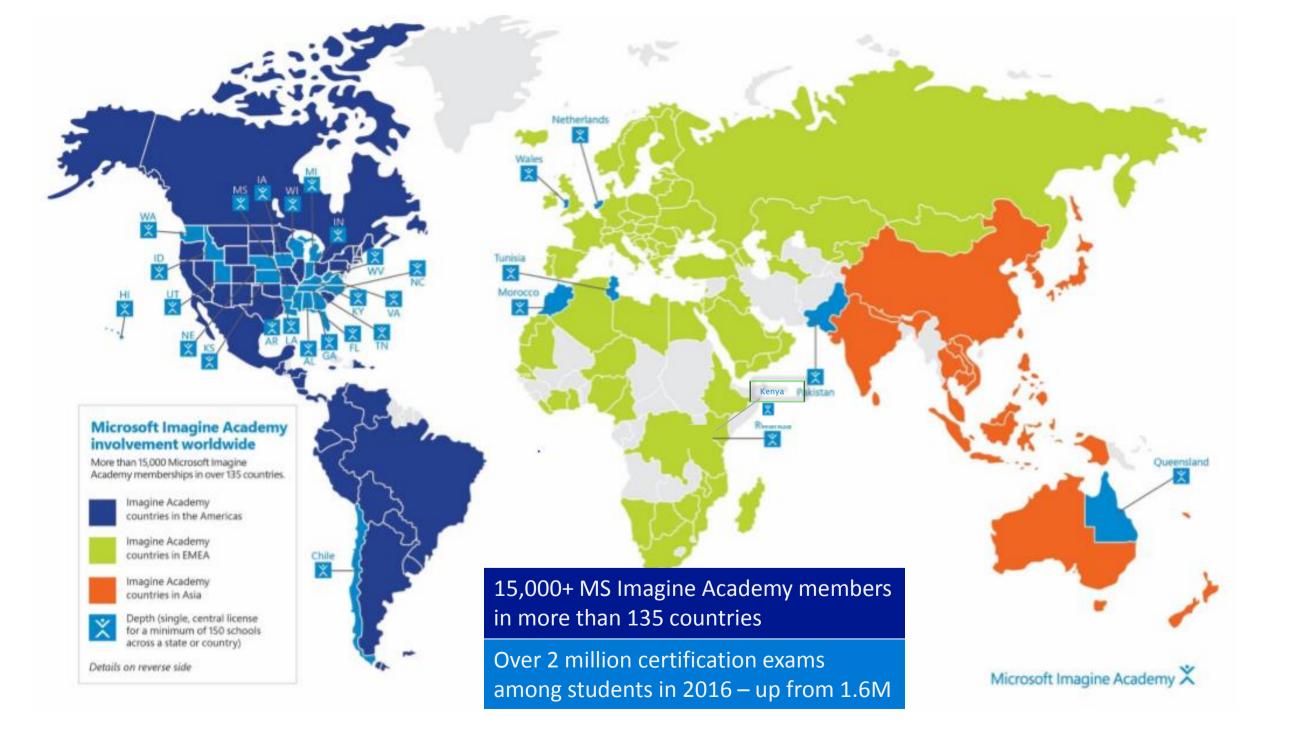
Statewide Agreements – USA Imagine Academy/Certification Site Licenses Washington DC
High Schools, CCs

South
Carolina
High Schools

250/15
0

Mississippi
High Schools

150/100



Microsoft Imagine Academy: Growing Global Academic Ecosystem

Reach
8.5 million
students and educators annually

Over
16,000 educators
certified

2 million Academic certification exams in 2015-16

15,000

Microsoft Imagine Academy member schools in 135 countries Over 1 million
Online Learning users



Microsoft Imagine Academy Benefits

Annual license designed to save schools time and resources on course implementation and delivery

MOAC

Microsoft Official Academic Courseware

ONLINE LEARNING



STUDY GUIDES







NO COST EXAM VOUCHERS FOR EDUCATORS – MOS, MTA, MCE



What types of academic institutions benefit from and license Imagine Academy?

K-12 Schools Universities, Colleges or Junior Colleges

Skills Centers

Military Academies



Vocational,
Workforce
Development and
Trade Schools

Scientific or Technical Schools

Libraries and Health Academies



MICROSOFT IMAGINE ACADEMY

Computer Science Productivity Data Science IT Infrastructure



MTA MOS MCP MCE **EMPLOYABILITY**

ECONOMIC DEVELOPMENT

ENTREPRENEURSHIP

Microsoft Certification Journey

MICROSOFT CERTIFICATION help students and technology professionals be more likely to get hired, demonstrate clear business impact, and advance their careers.



MICROSOFT TECHNOLOGY ASSOCIATE

- Windows OS Fundamentals
- Software Development Fundamentals
- Database Fundamentals
- Windows Server Administration Fundamentals
- Networking Fundamentals
- Security Fundamentals
- Mobility and Devices Fundamentals
- Cloud Fundamentals

MICROSOFT CERTIFIED PROFESSIONAL

- Server
- Desktop
- Applications
- Database
- Developer

DIGITAL LITERACY CERTIFICATE

- Computer Basics
- The Internet, Cloud Services, and the World Wide Web
- Productivity Programs
- Computer Security and Privacy
- Digital Lifestyles

MICROSOFT OFFICE SPECIALIST

- Word
- Excel
- PowerPoint
- Access





MS Imagine Academy supports online, flipped, blended and traditional classroom instruction

Microsoft Imagine Academy

Classroom

Educator Development

Student Certification

Marketing

Jeff Johnson



Curriculum overview >

Your curriculum resources support technology skills and certification preparation. These curriculum resources include:

- · Learning Paths
- · Microsoft Digital Literacy
- · Microsoft Official Academic Course (MOAC)
- Lesson Plans
- · Online Learning
- . Review & study guides

Curriculum downloads



Online learning dashboard >

Online Learning provides a library of multi-media, interactive courses on multiple Microsoft technologies that allow educators to manage and organize users, course assignment, and activity reports.

- Videos
- Simulations
- · Hands-on activities
- · Learning plans



Additional resources >

To complement and enhance your curriculum delivery there are a range of additional resources available to you at a special Imagine Academy discount. These resources include:

- MS Press books and eBooks
- · Wiley resources, including print MOAC, OfficeGrader and
- Microsoft Official Courseware (MOC)



Classroom setup >

Here are some resources to help you get ready for your classes:

IT Director Guide



Student recognition

You can easily create course completion recognition awards to distribute to students. These are ideal for students who may not be able to take the certification exam. The award can be customized

with your school loop, page, etc.

Imagine Academy: Online Learning

Microsoft Imagine Academy Jeff John... Organization dashboard Learning Plans Users Reports Groups 82 751 70 Help topics Getting Started Video Educator Additional Administration features video Dashboard Microsoft Imagine Academy Catalog Search for courses North America IT... | Jeff John... My courses My achievements 30 Resume last course Help topics Student Accessing your courses Dashboard Finding courses to take **PowerPoint** Finding course system requirements Printing a transcript Printing course completion certificates See all Microsoft PowerPoint 2013 Essentials

150 courses

Multiple technologies

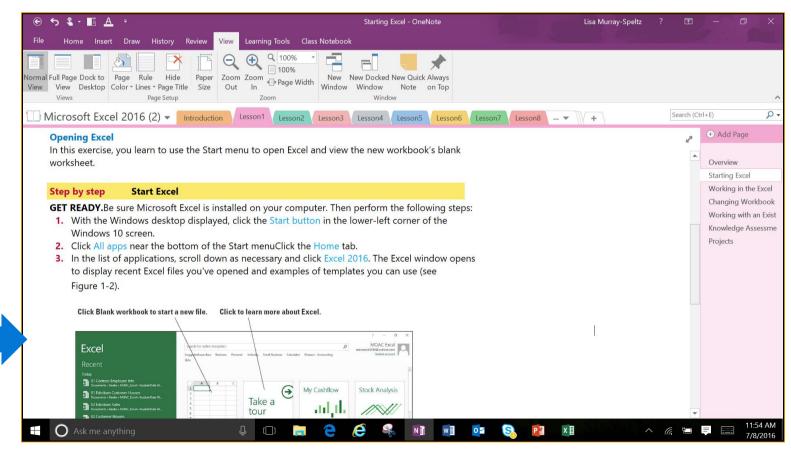
Complementary educator & student experiences

Digital Textbooks – mapped to certification

Microsoft Official **Academic Course**

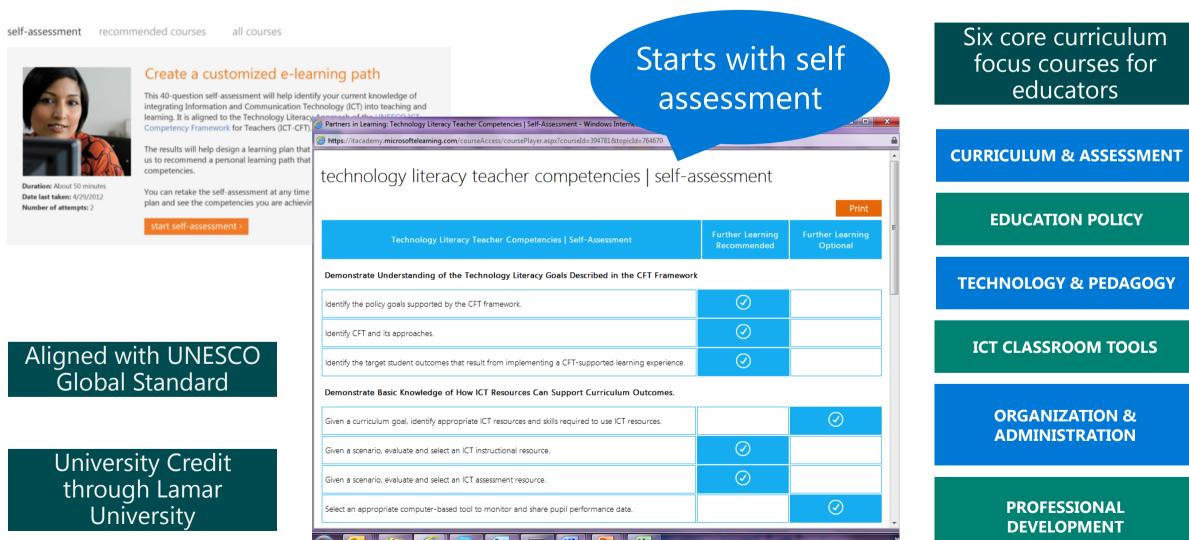
Hands-on lessons, quizzes, industry relevant exercises focused on students learning essential job tasks and current technologies

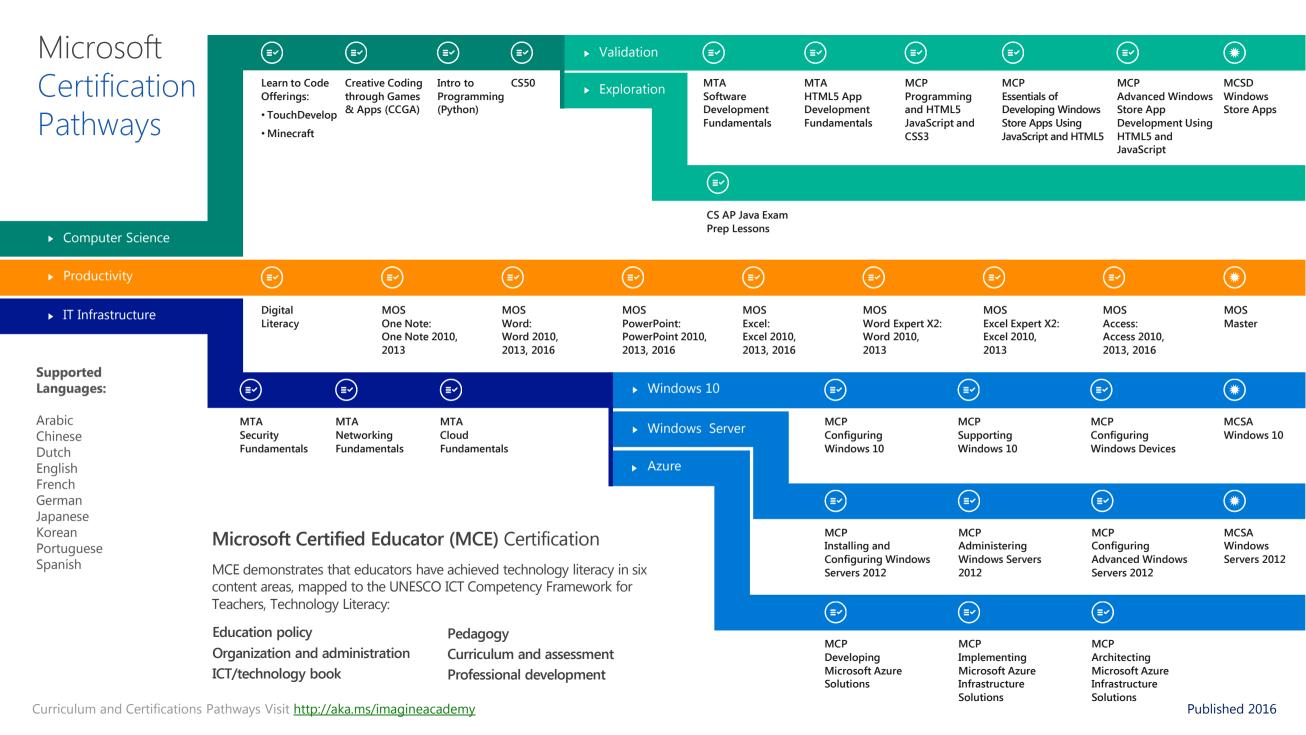
- MOAC digital curriculum for MSIA mapped to latest exam objectives
- Full text downloads for educators and students
- Take advantage of flexibility and adaptability of OneNote
- Save teachers time and save schools course costs





Microsoft Certified Educator -- Self Assessment & Individual Learning Plan for Educators, future teachers





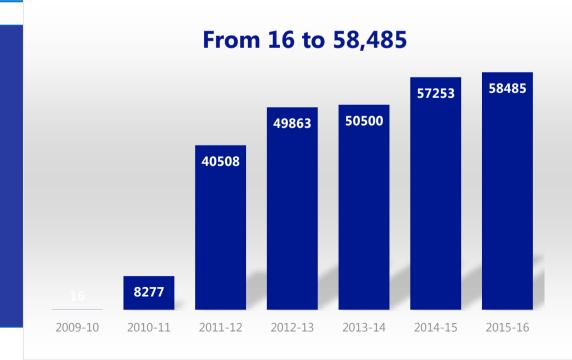
Computer Science Software Engineer Minecraft Introduction Hour of Code Minecraft Creative Technopreneurship Programming with Querying Data with Java "AP A in-a-box" Harvard CS50 AP to Python Redstone Codina T-SQL Computer Science (Computer Games Principles Science) and Apps Entrepreneur Xamarin IT Infrastructure Technopreneurship Technologies Fundamentals Fundamentals Development for (Python)/HTML, CSS, JavaScript Absolute Programmer Networking Windows Security Server Fun dam en tals Fun dam en tals Administration Job Readiness **Fundamentals** Microsoft Technology Associate (MTA) DEVELOPER Microsoft Technology Windows OS Fundamentals HTML5 App Associate (MTA) Software Software Software Development Fundamentals D evelop ment Testing Development Database Fundamentals Fun dam en tals **Fundamentals** Fun damentals Windows Server Administration Fundamentals Networking Fundamentals Security Fundamentals Mobility and Devices Fundamentals Microsoft Imagine Cloud Fundamentals **Academy Learning** Data Science Data Pathways Scientist in development Introduction to Introduction Querying Data Analyzing and Introduction to Python Excel 2016 Data Analysis to Databases Visualizing or for Data Science or and Excel Data with Excel Introduction to R for Data Science Using Excel Expert 2016 Querying Data with T-SQL or Power BI Early Skill Development Basic Skill Development MOS Productivity Intermediate Skill Development Master Advanced Skill Development Digital MOS MOS MOS MOS MOS MOS MOS Live Learning Experience Excel: **Excel Expert:** Literacy One Note: Word: PowerPoint: Word Expert: Access: Live Learning Experience with Certification Word 2010, Word 2010, Word 2010. One Note PowerPoint 2010. Excel 2010, Access 2010 2010, 2013 2013, 2016 2013, 2016 2013, 2016 2013, 2016 2013, 2016 2013, 2016



SYSTEM-WIDE CHANGE IN NORTH CAROLINA, USA

In 2010 North Carolina became our first partnership to deploy MSIA system-wide in all high schools in the state. Their goal.... to develop a pipeline of information workers to attract new business and higher paying jobs.

- 234,000 certifications earned to date
- From 16 to 58,485 per year
- Created a pathway to two year Community Colleges



FLORIDA (USA)

Key Performance Indicator	Students without Certifications	Students with Certifications	CAPE Academy Students with Certifications
Average GPA	2.64	2.88	2.98
Dropout Rate	2.7%	.6%	.3%
Graduating 12 th Graders	71.9%	92.1%	94.9%
Chronically Absent	18.3%	16.2%	11.3%
Disciplinary Action	16.4%	10.3%	9.9%

Impacts of Skills & Certifications Attainment on School Performance Measures

Annual study across more than 1,500 Florida high schools and middle schools Students with industry certification outperform non-certified peers on key performance indicator for schools

The career program is in its 6th year in Florida high schools. Over time, industry certification earner graduates outperformed the overall average high school population with consistently higher placement rates in employment or postsecondary education.

Kentucky Department of Education

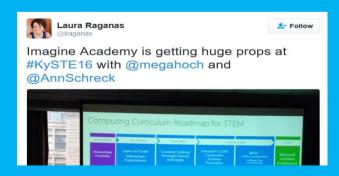


- 187 Microsoft Imagine
 Academy high schools and tech centers
- 160 Microsoft Certification Site Licenses
- O365 Statewide K-12
- Strong Focus on Computer Science & Student Certifications

COMPUTER SCIENCE MOMENTUM



The Hour of Code with Minecraft provided new inspirational learning opportunities in classrooms in Shelby County, Kentucky, USA



90+ Kentucky, USA, educators gained insights for teaching Computer Science and MTA track with MSIA in Louisville

"So many of our industries and businesses are asking for our students to have those skills in Computing. It does give our students a little leg up." Laura Raganas, MSIA program manager, KDE Office of Knowledge, Information and Data Services



Kentucky students featured at ISTE for winning Math competition





Students and educators:

Get Office for free

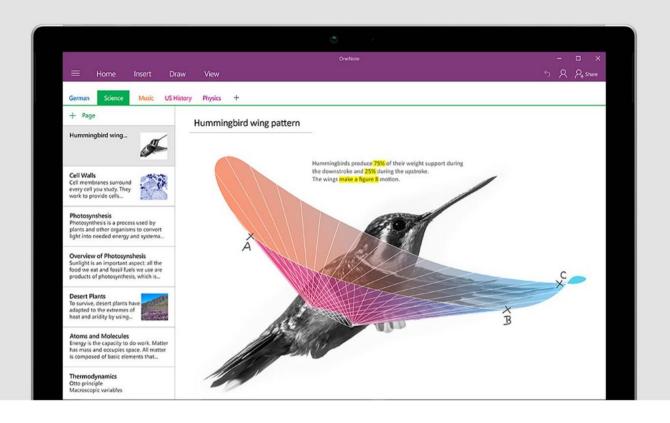
Transform your classroom with Office 365 Education. It's free, it's not a trial, and it includes Word, Excel, PowerPoint, OneNote, and more with your valid school email address.

LEARN HOW IT WORKS >

Enter your school email address

Get Office for free

IT PROS, SIGN UP YOUR ENTIRE SCHOOL >



Get started with free Office apps

Organize





OneNote











Collaborate



Word Excel

PowerPoint

Skype

What's new in Office 365 Education?

Collaboration and communication in the classroom



Class Notebook add-in (preview) with Classroom & LMS assignments
Professional Learning Community (PLC) Groups
Office Online collaboration improvements—scale and chat

Managing the online classroom



Class Notebook add-in (preview) with Classroom & LMS assignments Microsoft Classroom (preview) for Office 365 Education Microsoft Forms (preview) and Microsoft Forms Grader add-in

Student empowerment



Learning Tools for OneNote (preview) add-in Sway—add audio narration, embedded quizzes with Microsoft Forms

Saving time



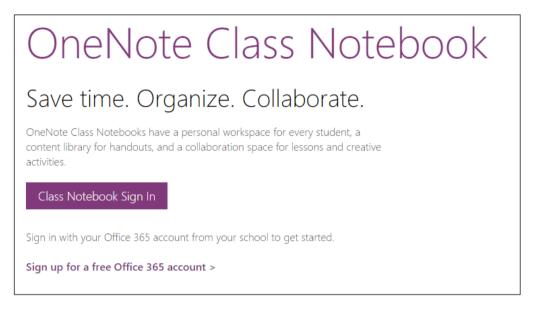
Teacher-to-Student invites in the Class Notebook School Data Sync (preview)

Teacher training and CPD

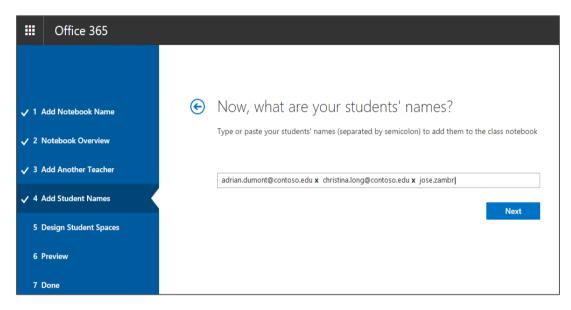


Docs.com—content download and publishing for Learning Registry Microsoft Educator Community

Class Notebook—invite new students quickly







- 1. Teachers—sign up for Office 365 Education, create OneNote Class Notebooks for their classes, and easily add students to a Class Notebook
- 2. Invites students to Office 365 without any help from IT!
- 3. Go to <u>onenote.com/classnotebook</u> and use the Class Notebook app

OneNote Staff Notebook









app. Uses include:



Collaboration space



Content library



Staff member notebooks



Collaboration: staff meeting notes/staff initiatives/shared lesson plan development/data chats/scope and sequence across content and grades/fundraisers/book studies/PLC's

permissioned OneNote notebook with an easy Office 365

School administrators can quickly set up a shared,

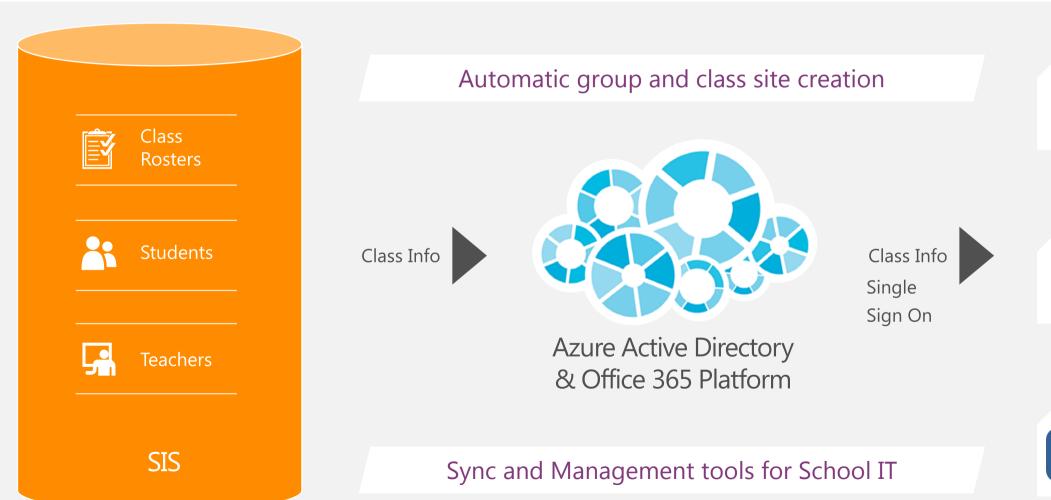


Content Library: policies and procedures/various school planning and calendar activities

Staff Member Notebooks (private): professional development/classroom observations/lesson plans/parent communication/evaluations/classroom data progress

Microsoft School Data Sync

A service in Office 365 Education









THANK YOU



Questions, Follow-up: Joel Lathrop <u>jolathro@microsoft.com</u> 616-633-8814