

10 ways to introduce emerging tech and professional skills with Open P-TECH

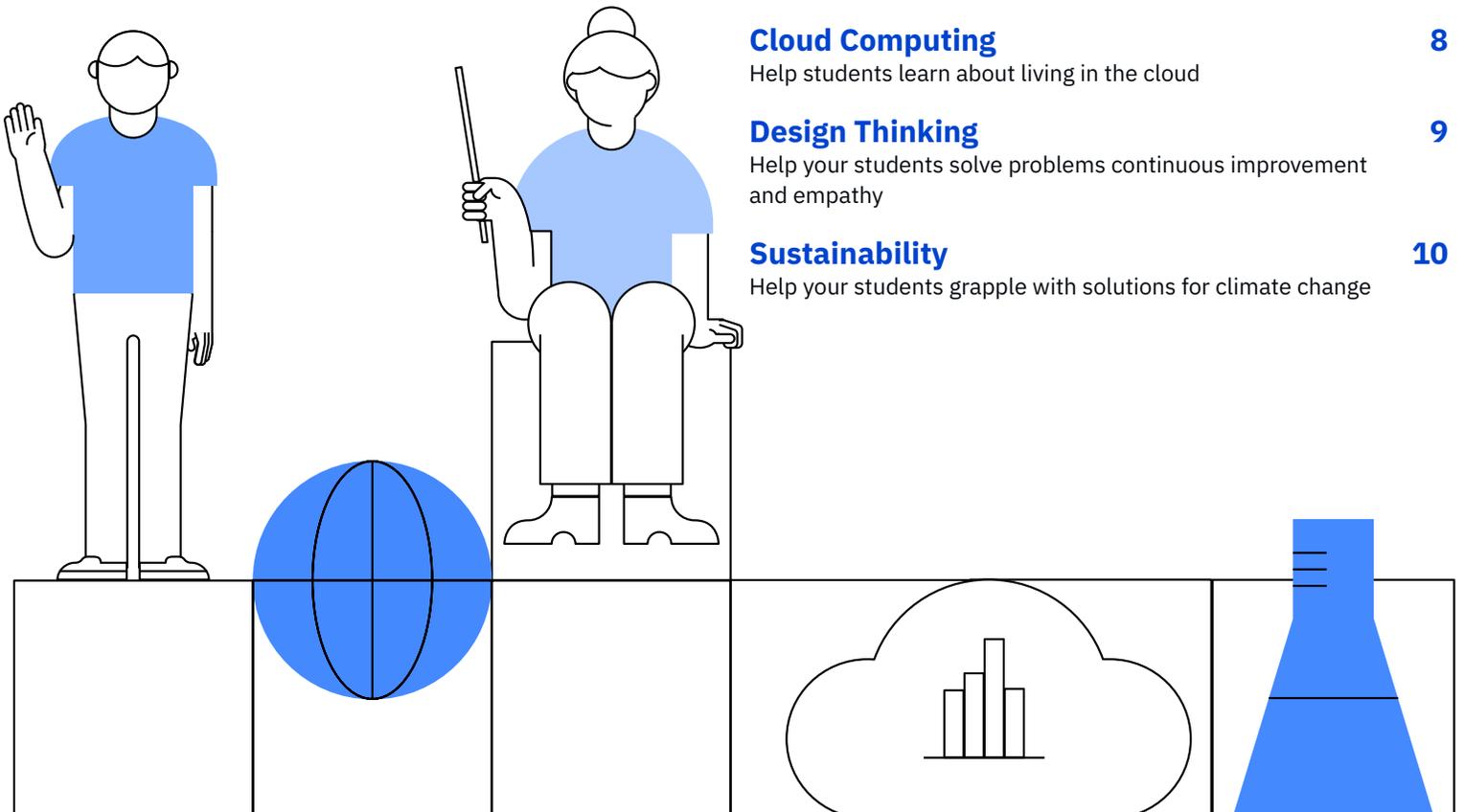
In this guide, you'll find 10 suggested ways to bring the free, industry-driven learning available in Open P-TECH into your (virtual or physical) classroom.

Each section includes:

- Learning objectives
- Recommended student audience
- Links to student and teacher facing content
- Implementation ideas
- Idea duration
- Languages available
- Testimonials from users
- Additional resources

Table of Contents for Top Ten:

Intro to Tech	1
Help students get started with emerging tech	
Job Application Essentials	2
Help students prepare for their first job	
Professional Skills	3
Help students gain core professional skills	
Mindfulness	4
Help students manage stress with mindfulness	
Artificial Intelligence	5
Help your students discover the power of Artificial Intelligence	
Data Science	6
Help students understand how data rules the world	
Cybersecurity	7
Help students become cybersecurity heroes	
Cloud Computing	8
Help students learn about living in the cloud	
Design Thinking	9
Help your students solve problems continuous improvement and empathy	
Sustainability	10
Help your students grapple with solutions for climate change	



Get started with emerging tech

Help your students get familiar with the emerging technologies that are shaping the world around us

Overview

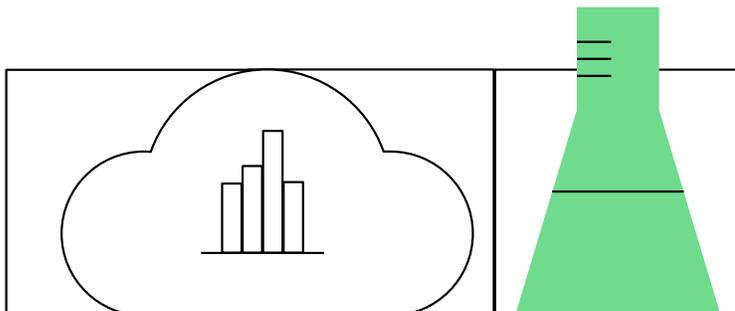
Your high school students are going to enter a working world that is already being shaped by Artificial Intelligence and other technologies. Help them get familiar with the ABCs of tech (AI, Blockchain, Cloud, and more) with our “Explore Emerging Tech” learning plan.

This content was created with a high school audience in mind. It’s an introduction, so students won’t need any prior experience with computer science or other tech fields. You and your students can get up to speed on the emerging tech that is shaping the world around us, together, with Open P-TECH. There’s also a teacher channel for each technology, created just for you.

Quick links

Note: For all of the content listed in this guide, you’ll need to log in to Open P-TECH to access these materials.

- **Explore Emerging Tech Student Learning Plan:** <https://ptech.yourlearning.ibm.com/activity/PLAN-91F302DE9BBD>
Note: Student learning plans contain all the necessary self-paced coursework a student will need to complete a given sequence of learning. Students can complete part of a learning plan, or complete the entire plan to earn the “Explore Emerging Tech” badge.
- **Teacher Resources - Explore Emerging Tech:** https://ptech.yourlearning.ibm.com/channel/CNL_LCB_1614720276419
Note: For every student learning plan or channel, educators can find specific teacher resources to use with students as they progress in their course content. Teacher resources are typically a mix of related lesson plans, project-based activities, or group project ideas.



Estimated time for students to complete the learning

- ~ 75 minutes per topic
- ~ 7-8 hours to complete the whole learning plan

Implementation ideas

- **Do it in a day:** Make an all-day, virtual event out of it! Introduce the concept of emerging technologies to your students as a lesson and ask them to do the content of the learning channel in small teams. Have them come back at the end of the day to share what they learned (and maybe even reward the teams with the best take-aways).
- **Do it in a week:** Host a “tech week” that introduces a new technology changing the world each day. This is a great way to spend the time after exams or over a break!
- **Do it over a unit/summer session:** Build a summer boot camp or multi-week experience that is focused on introducing students to emerging technologies and explore possible related career fields.
- **Embed it in a class:** Utilize this learning channel during units on career exploration, jobs of the future, or when you introduce each of these emerging technologies in a Computer Science class.

What other educators have to say

Dr. Mohammad Azhar, Borough of Manhattan Community College – “I personally use the “getting started” topics as interest building activities. If I want the students to work on cybersecurity, I give them, ‘Here’s the starting point. Finish that activity and let’s talk again.’ So, they get an idea, then I have a good way to start the discussion and show them how they can learn more.”

Tags: beginner, getting started, emerging technologies

Language availability: English, Spanish, Portuguese, French, Polish, Turkish, Arabic, Korean, Traditional Chinese

Recommended student audience:

- K-12: 8th-10th grade
- STEM nonprofits or after school clubs

Connections to other Open P-TECH learning: Once students finish this introductory experience, they can go on to earn badges in any of the technologies that interest them most.

Job Application Essentials

Help your students think about and prepare for their first job—and help them earn a digital badge for their resume!

Overview

Are your students about to enter the working world for the first time? Are they getting ready to apply for summer jobs or internships? Are they stressed about the resume and interview process? Open P-TECH's "Preparing for your first job" course is a great resource to help them get comfortable with all aspects of a first job search. It covers:

- how to build a personal brand,
- how to research the companies and roles you might like to apply for,
- how to craft a stand-out resume, even with no work experience, and
- how to ace your interview

Co-created by IBM and NAF, this course is geared toward first-time job-seekers, but contains skills and practices that are relevant throughout your career, so it's perfect for high school and college students alike.

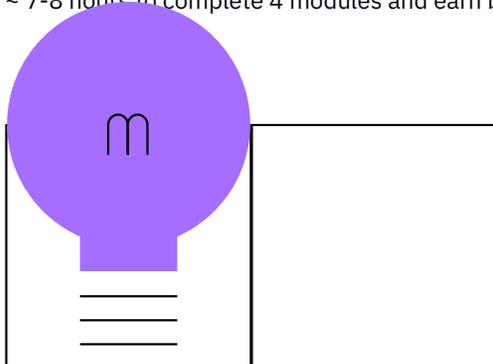
Quick links

Note: For all of the content listed in this guide, you'll need to log in to Open P-TECH to access these materials.

- **Preparing for Your First Job Student Learning Plan:** <https://ptech.yourlearning.ibm.com/activity/PLAN-BFF8E88F9961?>
- **Teacher Resources - Preparing for Your First Job:** https://ptech.yourlearning.ibm.com/channel/CNL_LCB_1615946982547

Estimated time for students to complete the learning

- ~ 2 hours per module
- ~ 7-8 hours to complete 4 modules and earn badge



Implementation ideas

- **Do it in a week:** Hold a "job prep week" and ask your students to complete one module per day (Monday-Thursday). On the final day, hold a live (virtual or in-person) interview day and reward the top three "candidates" based on the quality of their resumes and interview performance at the end of the day.
- **Do it over a unit/summer session:** Use the corresponding educator resources and assign a module per week over a four-week time period. Build in time to check-in with students each day on what they're learning and review the work they're doing as part of the course. Assign credit or a grade based on their ability to earn the digital badge at the end of the unit.
- **Embed it in a class:** Whether you're a college and career readiness teacher, workplace learning teacher, or youth development professional working with students outside of school, you can assign the course periodically over the course of the academic year and use the educator materials that align to the course to ensure students have an opportunity to practice and debrief the skills learned through the course.

What others are saying

"Overall, I found the Preparing for Your First Job course to be extremely helpful. It was user-friendly, the content was right on, and it gave my students a good reflection component to help broaden their point of view." — **Latonia Atkins, Skyline High School**

"The Preparing for Your First Job course was excellent -- the lessons were informative, broke down concepts step by step, and included engaging videos in each module. I loved that it was online and totally self-directed for my students." — **Glenda Algaze, Miami Lakes Educational Center and Technical College**

Tags: workplace skills, job prep, high school, internship prep, mock interviews, resume

Language availability: English, Spanish, Portuguese (Brazil), French

Recommended student audience:

- K-12: 9th-12th grade
- College-level students

Connections to other Open P-TECH learning: Students can further develop their employability skills further by completing IBM's Professional Skills courses and badge.

Gain core professional skills

Help your students gain essential professional skills and earn a digital badge to enhance their resumes

Overview

If you google “[top skills employers look for](#),” you’ll notice hiring managers are really focused on what we used to call “soft skills”. Regardless of industry, employers are looking for well-rounded people who can think critically, problem-solve, and collaborate well with others.

Help your students continue to develop key professional skills that will set them up well for success in any job with our “Working in a Digital World: Professional Skills” course. Students will learn presentation best practices, how to collaborate effectively, how to develop interpersonal skills, how to work in agile environments, and how to solve problems with critical and creative thinking.

Created by IBM experts, this course offers a balanced approach to help students develop the critical workplace skills valued by employers across industries.

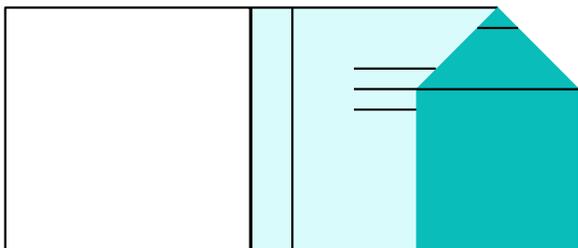
Quick links

Note: For all of the content listed in this guide, you’ll need to log in to Open P-TECH to access these materials.

- **Professional Skills Student Learning Plan:** [Quick link to the Professional Skills learning plan in Open P-TECH](#)
- **Teacher Resources - Professional Skills:** <https://ptech.yourlearning.ibm.com/activity/PLAN-168DB85AA698>

Estimated time for students to complete the learning

- ~ 90 minutes – 2.5 hours per module
- ~ 8-10 hours to complete full course and earn digital badge



Implementation ideas

- **Start it in a day:** Have students take the 90 minutes “Present with a Purpose” module before class presentations
- **Do it in a week:** Assign a module each day for a Career Week.
- **Do it over a unit/Summer:** Focus on a module each week over a five-week unit, using Open P-TECH’s educator resources to discuss and debrief daily with your students.
- **Embed it in a class:** If you teach a Career Readiness class, the content could be a great beginning or end of the year assessment. You could also break it up based on units related to the coursework.

What others are saying

High School Teacher Georgette Kelley – “I wanted to provide my students with additional career and college readiness opportunities, especially in the virtual setting, where social media branding is important in several ways for a successful future.”

Todo – This course has successfully condensed the content of a book into a mere 155 minutes of online learning. You won’t regret taking this course because you learn all the essential things in presentation. Great course that you can’t miss.

Tags: workplace skills, job prep, high school, internship prep, mock interviews, resume, collaboration, critical thinking, NAF, presentation skills, agile

Language availability: English, Spanish, Portuguese (Brazil), French, Korean

Recommended student audience:

- K-12: 9th-12th grade
- College-level students

Connections to other Open P-TECH learning: Students can further develop their employability skills further by completing the Job Application Essentials course (see Idea #2 above).

Explore mindfulness

Help students manage stress, learn super useful mindfulness techniques, and earn a digital badge from IBM.

Overview

Now more than ever before, we are all looking for ways to ensure we are taking care of ourselves mentally. The Mindfulness badge, developed in partnership with the University of Oxford Mindfulness Centre, enables educators and students to develop stress management and mental health practices that can be leveraged both at school and at home.

Quick links

Note: For all of the content listed in this guide, you'll need to log in to Open P-TECH to access these materials.

- **Explorations into Mindfulness Student Channel:** https://ptech.yourlearning.ibm.com/channel/CNL_LCB_1586286838610
- **Teacher Resources - Mindfulness:** https://ptech.yourlearning.ibm.com/channel/CNL_LCB_1615212199387

Estimated time for students to complete the learning

~ 3 hours to complete the full course and earn the badge

Implementation ideas

- **Do it in a day:** Help your students prepare for the rigors of a big test or event by learning the fundamentals of mindfulness and incorporating some of the teacher resources.
- **Do it in a week:** Hosting virtual or in-person summer learning? Have your students start with a mindfulness course module each morning to help them prepare for the day.
- **Do it over a unit/summer:** Hosting a longer program for students? Incorporating mindfulness into your programming will give your students the tools they need to handle some of the stress they may encounter and allow them to get centered and focused as they approach the tasks in front of them.

- **Embed it in a class:** Mindfulness is great for any class, especially when students are studying complex or unfamiliar topics like computer science and STEM content.

What others are saying

Nithya, HS Educator – “I’m thinking of a specific example, like the mindfulness badge, which is something that we’re promoting and it is timely because what they learn in that badge is something that they need from a skill perspective to adapt to this new environment [with COVID].”

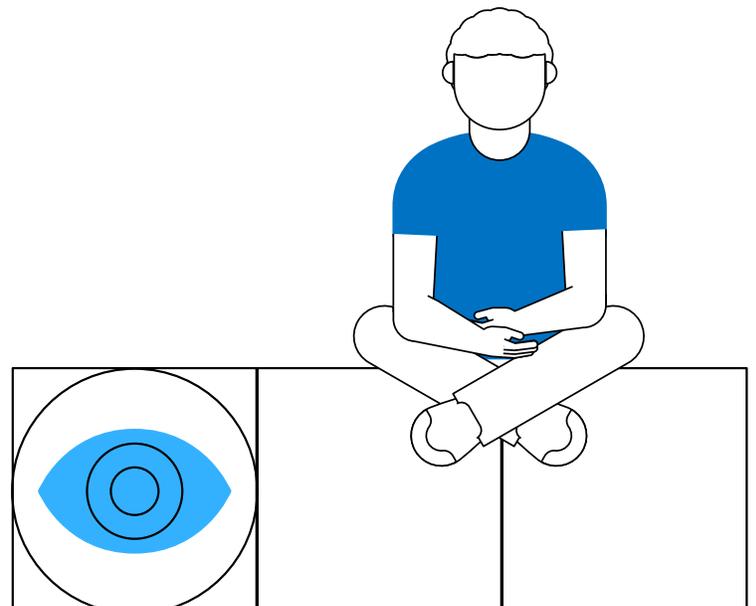
Thaban (student) – “This has been one of the most wonderful experiences of my life, I really didn’t expect to learn this much in the course with so much life knowledge to go home with. Thanks a lot IBM and Oxford. This is really life changing.”

Tags: mindfulness, workplace skills, job prep, high school, internship prep

Language availability: English

Recommended student audience:

- K-12: 9th-12th grade
- College-level students
- Adult learners
- All



Artificial Intelligence Foundations

Help your students discover the power of Artificial Intelligence.

Overview

Whether we realize it or not, our daily lives are being shaped by AI. Sophisticated computer programs and algorithms help us decide what to eat, what route to take to work or school, when to water our plants, and what goods and services we should order. The ability to understand how AI impacts our world will be critical for the jobs of tomorrow, whether they be in a technical field or not. Open P-TECH offers a wealth of introductory AI content based on the level of interest and time to devote to the topic.

Use the “Artificial Intelligence - Getting Started” course for a quick overview of the basics of AI. Help your students apply what they’ve learned by working with them to build a chatbot using IBM’s Watson Assistant in the “Build Your Own Chatbot” badge course. And for those who want a more comprehensive introduction to Artificial Intelligence and Design Thinking, check out our “AI Foundations” course powered by ISTE and IBM, which also gives a badge to students.

Open P-TECH’s student and teacher-facing AI content provides a well-rounded introduction to Artificial Intelligence and how it is shaping our world. Importantly, the content is relevant to all students, regardless of their future career interests.

Quick links

Note: For all of the content listed in this guide, you’ll need to log in to Open P-TECH to access these materials.

- **Getting Started with AI: School Based Plan:** <https://ptech.yourlearning.ibm.com/activity/PLAN-097D25E92192>
- **Teacher Resources Getting Started with AI (School-based plan):** <https://ptech.yourlearning.ibm.com/activity/PLAN-9D943487507A>

Estimated time for students to complete the learning

~ 90 minutes for Artificial Intelligence - Getting Started course
~ 5 hours to complete How to Build Chatbots (Earn a Badge!)

~ 14 hours to complete ISTE AI Foundations (Earn a Badge!) w/ project component

Implementation ideas

- **Hackathon:** Introducing AI is a great hackathon idea! Assign the “Getting Started” courses as self-paced pre-work to get students familiar with the basic concepts of AI, like machine-learning, natural language processing, and more. Then, run a “Build a Chatbot” hackathon that uses the “How to Build Chatbots” course as the guide for getting students to build real, functioning chatbots using IBM Watson Assistant. Make it a fun competition by asking the students to present their chatbot ideas at the end of the hack-a-thon, and award the students or groups who have the best chatbots!
- **Do it in a week:** Have a STEM summer camp, or just a week where you need an out-of-the-box idea to work on with your students? Use the learning plan above to give students the basic intro to AI and a way to get hands-on with machine learning by building a chatbot over the course of a week.
- **Do it over a unit/Summer Program:** For educators who have a longer runway to dig into AI, the Open P-TECH learning plan above offers a comprehensive introduction to AI, from a brief overview to deep-dive introduction that includes a design thinking project. Students will emerge with an in-depth understanding of Artificial Intelligence, along with the opportunities and risks that the technology offers the world around them. Great opportunities to go from knowledge-based acquisition to higher-order thinking and application about a topic shaping our world!

What others are saying

Alvaro Brito, Compton ISD — “The fact that our students were able to create chatbots in such a short amount of time is incredible!”

Tags: Artificial Intelligence, AI, chatbot, Machine Learning, ISTE, AI Design Challenge, Design Thinking, Robots

Recommended student audience:

- 9th-12th
- College
- STEM Nonprofits or after school clubs

Connections to other Open P-TECH learning: Once students have a strong foundational understanding of AI, have them take our

Help Students Understand How Data Rules the World

Help your students learn the fundamentals of data science and how it impacts everything we interact with in a digital world.

Overview

Data is all around us. The number of likes, retweets, impressions, and views are all a type of data. Data tells us how many covid cases there are and how many vaccines have been distributed and where. With the ever increasing amounts of data, the need for folks who understand data science is more critical than ever. Every organization from Twitter, to the NFL, to the White House have data experts who work with enormous data sets that can help inform how we live, work, connect, and stay healthy.

With Open P-TECH's "Data Science Foundations," students will be introduced to the basic concepts of Data Science, data science tools, and proper data science methodologies. Created in conjunction with Cognitive Class, Data Science Foundations is an essential building block to understanding the future of work.

Quick links

Note: For all of the content listed in this guide, you'll need to log in to Open P-TECH to access these materials.

- **Data Science Foundations Student Learning Plan:** <https://ptech.yourlearning.ibm.com/activity/PLAN-FODF852C4003>
- **Teacher Resources - Data Science:** https://ptech.yourlearning.ibm.com/channel/CNL_LCB_1615213020281

Estimated time for students to complete the learning

- ~ 14 modules and 3 assessments
- ~ 10-12 hours to complete the whole learning plan

Implementation ideas

- **Do it in a day:** Make it an all-day event with students working through the first two modules of Intro to Data Science badge while incorporating the first two teacher resources focused on Data Science 101.
- **Do it in a week:** Have students complete the Intro to Data Science and all of the modules in Data Science 101, which takes about three hours over five modules. One module can be

assigned each day with intro content on Monday and the final exam on Friday.

- **Do it over a unit/Summer:** Challenge your students to complete all the badges in Data Science Foundations which will earn them an additional fourth culminating badge.
- **Embed it in a class:** Already assigning your students data science coursework? Why not incorporate the data science badges as part of your lab completion work. Here students could work at their own pace in a lab setting and still get guidance when needed.

Hear from users

Mayara (student) — "I was surprised, I had no idea that data science could be a profession, I liked it quite a lot!"

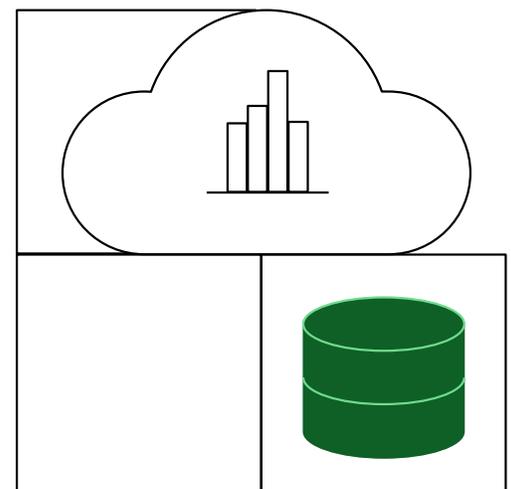
Tags: Data Science, Data tools, Data Methodologies, Big Data, Hadoop, Spark Fundamentals

Language availability: English

Recommended student audience:

- 9th-12th
- College
- STEM Nonprofits or after school clubs

Connections to other Open P-TECH learning: Have your students take our Cloud Computing courses for a deeper understanding of the infrastructure supporting the incredibly powerful tools collecting



Help Students Become Cybersecurity Heroes

Help your students learn about the foundations of cybersecurity, cybersecurity careers, and ways to keep themselves and families secure from cyber attacks.

Overview

We are looking for the next generation of heroes who work on the front lines of protecting individuals, organizations, and companies from cyber threats. Today, more than ever, companies, organizations, and nations need strong digital defenses to protect themselves and their data.

Cyber security experts are some of the most highly sought after tech workers around the world and the need is only growing.

Quick links

Note: For all of the content listed in this guide, you'll need to log in to Open P-TECH to access these materials.

- **Cyber Essentials Student Learning Plan:** <https://ptech.yourlearning.ibm.com/activity/PLAN-29AE7C25B696>
- **Teacher Resources - Cybersecurity Essentials:** https://ptech.yourlearning.ibm.com/channel/CNL_LCB_1615232016018

Estimated time for students to complete the learning

- ~ 7 modules , 1 assessment, and 2 book summaries
- ~ 8-10 hours to complete the whole learning plan

Implementation ideas

- **Do it in a day:** Use the “**What is Cyber Security**” as a jumping off point to begin the day on a hackathon around Cyber Security. It'll take about an hour and ask students to devise ways their school/ college/campus/computer system can be better protected from cyber threats.
- **Do it in a week:** Want to focus on Cyber Security as part of a week-long program, then this lesson is for you. Break up the learnings into around 2 hour blocks each day, starting with “**What is Cyber Security**” and “**How is Cyber Security Used**” and end

with a discussion on what impacts Cyber Security has on the real world and beyond the headlines.

- **Do it over a unit/Summer:** Work on a larger unit with cyber security is a part of your programming. Use this lesson plan and pair with other lesson plans such as **Artificial Intelligence** and **Data Science** to provide your students with a more holistic look at the world of data and cyber security.
- **Embed it in a class:** Use our Cybersecurity Curriculum Map available in the teacher resources channel above to lead your students in a comprehensive deep-dive of cybersecurity fundamentals.

Hear from users

Prathamesh (student) – “Pretty extensive knowledge and very well explained for a beginner.”

Freddie (student) – “Excellent course, which allows me to strengthen my technical knowledge of cybersecurity. 100 % recommended!”

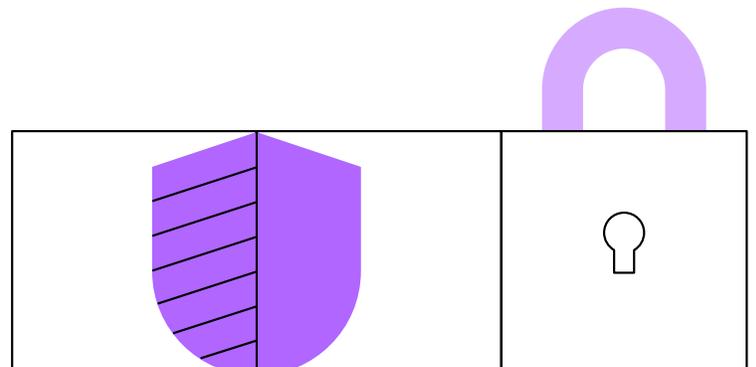
Tags: Cybersecurity, Cyber Threat

Language availability: English, Spanish, Portuguese (Brazil), French (Badge Only)

Recommended student audience:

- Grades 9th-12th
- College
- STEM Nonprofits or after school clubs

Connections to other Open P-TECH learning: Have students



Help Students Learn About Living in the Cloud

Help your students learn about cloud computing and how they interact with the cloud everyday

Overview

Every day we interact with cloud computing and may never know it. From our mobile devices storing our photos to smart devices relaying commands to emails we can access anywhere, our data is stored in remote servers in large warehouses around the world in what is collectively called, the cloud. But what exactly is the cloud and how does it impact our lives? Cloud computing powers everything from your favorite mobile app to the latest weather reports to your favorite streaming services and will only become more important over time. So let's get our heads in the clouds and look around.

Quick links

Note: For all of the content listed in this guide, you'll need to log in to Open P-TECH to access these materials.

- **Learn About Living in the Clouds (Cloud Computing) Student Learning Plan:** <https://ptech.yourlearning.ibm.com/activity/PLAN-C10DE143C94C>
- **Teacher Resources - Cloud Computing:** https://ptech.yourlearning.ibm.com/channel/CNL_LCB_1615234184424

Estimated time for students to complete the learning

- ~ 9 modules , 1 assessment, and 3 videos
- ~ 18 hours to complete the whole learning plan

Implementation ideas

- **Do it in a day:** Have students participate in the “Get Your Head in the Cloud: IBM Activity Kit” then have students create their own concept of a cloud-based mobile app.
- **Do it in a week:** Engage students with the basic introduction to cloud computing with “What is Cloud Computing,” “How is Cloud Computing Used,” and then have them complete the “Introduction to Cloud” badge.
- **Do it over a unit/Summer:** Have students learn cloud computing and IBM Cloud essentials by completing first four sections of the learning plan where students can earn two badges.
- **Embed it in a class:** Have your students work through the whole

learning plan which gets them up to speed on Cloud Computing and hybrid cloud in additional to earning two badges.

Hear from users

Mike (student) – “Excellent concepts to start in the world of Cloud Computing.”

César (student) – “The basic concepts of Cloud Computing are very clear and help us to differentiate the types of services we can obtain for our companies according to their needs and growth.”

Tags: Cloud, Cloud computing, hybrid cloud, design thinking, Internet of Things, IoT

Language availability: English

Recommended student audience:

- 9th-12th
- College
- STEM Nonprofits or after school clubs

Connections to other Open P-TECH learning: Cloud is the backbone that drives all emerging technology. With an understanding of



Use Design Thinking in any class

Help your students learn about Design Thinking, and how to apply it for a variety of problems, big and small.

Overview

Design thinking principles and best practices help us tackle real world problems by taking a human-centered approach to solutions. Developing a design thinking lens is an important skill for all careers and professions and can be a great tool to help students bring about innovative and positive changes to their school, organization, or community.

Quick links

Note: For all of the content listed in this guide, you'll need to log in to Open P-TECH to access these materials.

- **Design Thinking for Collaborators and Problem Solvers (A School-based Plan):** <https://ptech.yourlearning.ibm.com/activity/PLAN-88C070A56045>
- **Teacher Resources - Design Thinking for Collaborators and Problem Solvers:** https://ptech.yourlearning.ibm.com/channel/CNL_LCB_1614976049269

Implementation possibilities

- **Do it in a day:** Introduce the concept of Design Thinking, and have students complete this **“What Is Design Thinking”** course in the first section of the student learning plan
- **Do it in a week:** Go deeper by having students complete the **“What is Design Thinking”**, **“How Is Design Thinking Used?”**, and **“IBM and Design Thinking”** courses, and introduce them to a possible career in the field through this **I AM A SCIENTIST** video

about design thinking in an MIT Design Lab; all in the first section of the student learning plan

- **Do it over a unit/Summer:** Once courses in the first section of the plan are finished, guide students to earn the **IBM Enterprise Design Thinking Practitioner badge**, the second half of the plan, where they'll practice their new skills either individually or as a team and apply those skills to something they want to improve in their school or community.

Hear from users

Ankush (student) – “Design thinking is a must for everyone.”

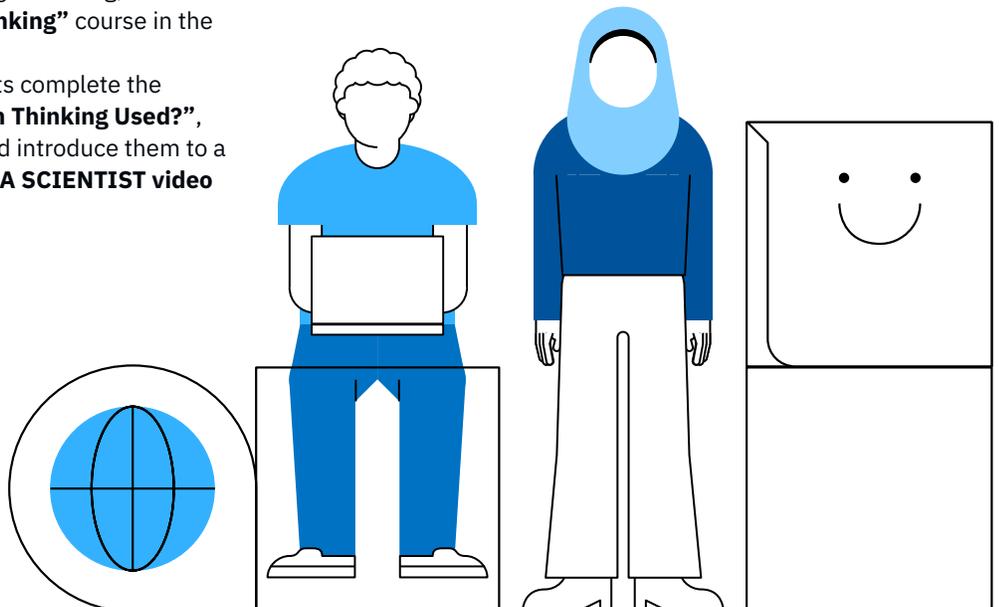
Jose (teacher) – “What an interesting introduction, about this new innovation Design Thinking and how it allows us, through empathy, to put ourselves in the place of users...Excellent learning.”

Tags: Design thinking, innovation, careers

Language availability: English

Use Cases (Grade Level): 9th-12th, College, Adult

Connections to other Open P-TECH content/courses: Once users have a good grasp of the content, they can become more advanced by earning the [Enterprise Design Thinking Co-Creator badge](#), or learn to apply design thinking principles to the world of AI by earning the



Sustainability

Help your students grapple with solutions for climate change by introducing learning topics related to Sustainability

Overview

Are you prepared to explain to your students how they can further sustainability, including in their own future careers? With Open P-TECH's sustainability resources, you'll be ready to lead productive discussions on understanding the complexity of environmental change, learning from biomimicry to address real-world problems, and planning sustainable supply chains, energy, and waste operations.

Quick links

— [Teacher Resource Channel: Sustainability](#)

Note: This topic's content is particularly focused on being teacher led. The resources provided within the Teacher Resources channel are best used in a blended learning environment, but some of them could be used in isolation and assigned to students

Implementation ideas

- **Do it in a day:** Introduce the problem of Climate Change via the **Understanding Climate Change video**, then assign students an activity related to a solution they can apply in their own lives, like the **reducing their own plastic footprint activity**
- **Do it in a week:** Do a short unit on Sustainability that covers a variety of topics: **Supply Chain, Water Quality, Biomimicry and Sustainable Design**, and **examples of careers in Sustainability**
- **Do it over a unit/Summer:** Lead a design thinking experience where students earn the [Enterprise Design Thinking Practitioner badge](#), learn about climate change and sustainability with resources from the **Sustainability channel**, and do a Design Thinking Challenge related to solving climate change.

Hear from users

David (student) — “Great course, very well explained and interactive, well summarized and leaves no information missing.”

Tags: Climate Change; Design Thinking;

Language availability: English

Use Cases (Grade Level): Environmental Science, Career Tech, Science, Climate Change

Connections to other Open P-TECH content/courses: You can help your students turn their new knowledge into action by assigning them to learn more about [Enterprise Design Thinking](#), and use the process to solve a problem related to climate change.

