

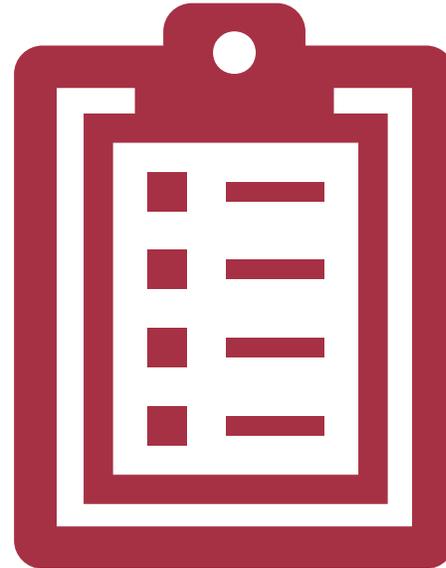
NYS P-TECH Orientation

WEBINAR #6: PROJECT BASED
LEARNING FOR P-TECH



Agenda

- ✓ What is Project Based Learning?
- ✓ Supporting PBL
- ✓ Incorporating Community Partnerships
- ✓ Opportunities and Challenges
- ✓ Resources to Learn More



Self Assessment

Think of a complex project you have completed recently (such as starting a PTECH program)

How did you accomplish this task? What did you need?

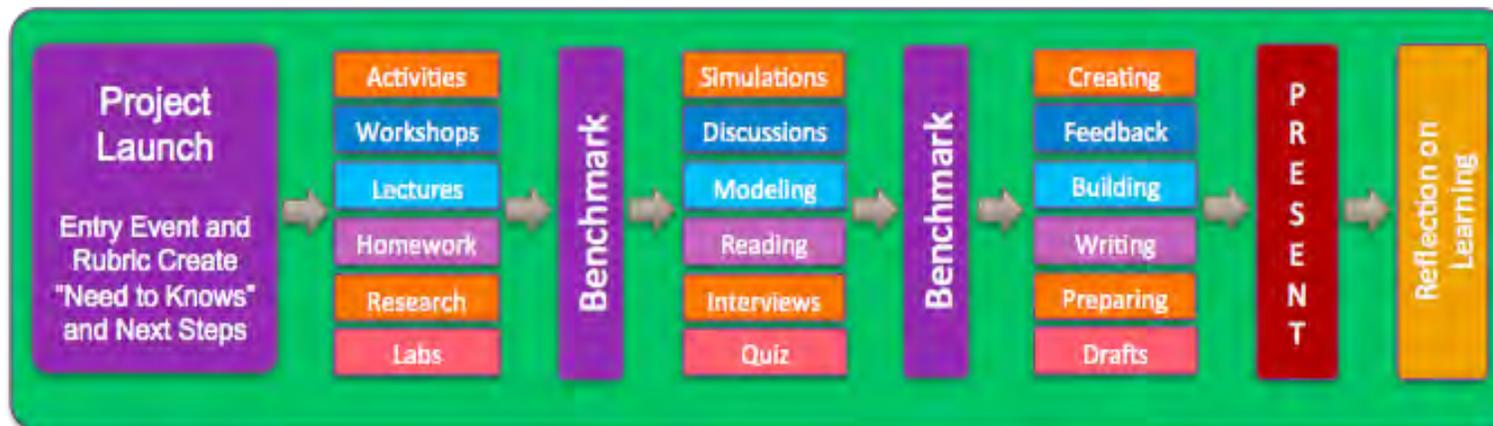


PBL vs. "Doing Projects"

Traditional Unit with Project:



Project-Based Learning Unit:



More than “Doing Projects”

Projects in a Traditional Classroom

- Projects serve as "capstone" at the end of a unit
- Instruction is guided by textbook, pacing guide, or teacher-generated plan
- Teacher serves as "holder of knowledge"
- Primary focus is on content

Project- Based Learning

- Projects are the curriculum
- Instruction is guided by student - identified "Need-to-Knows"
- Teacher serves as “coach” and “facilitator”
- Primary focus is the process



Entry Events and Need to Knows

An **entry event** is a document, video clip, guest speaker, or any other experience that sets the stage for the student task.

Entry events are used to get students talking about:

- What they **know**
- What they **need to know**
- Their logical **next steps**

Benchmarks

Once students have identified Need-to-Knows (NTKs), **scaffolding** activities and resources help them master the content and skills they need to complete the project.

Disciplinary Literacy and Content

College and Career Skills

Navigating the PBL Process

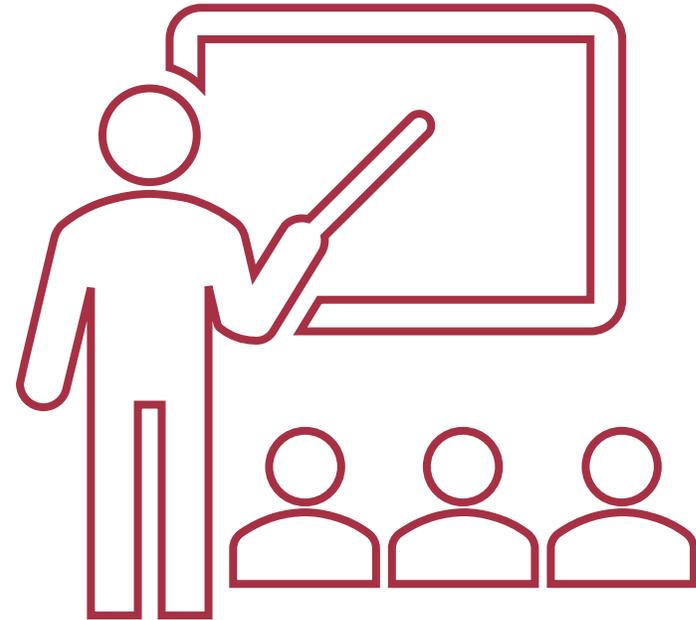
Benchmarks - Details

- ...give structure to a project.
- ...scaffold a series of deadlines and support time management.
- ...provide opportunities for students to give and receive feedback from peers, teachers, and outside experts.
- ..provide opportunities for assessment, as well as additional scaffolding and other intervention



Final Products

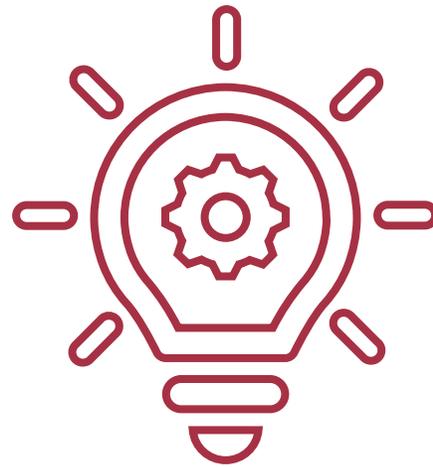
Each project culminates in a student produced **final product** that requires students to demonstrate mastery of core content and skills in an authentic way



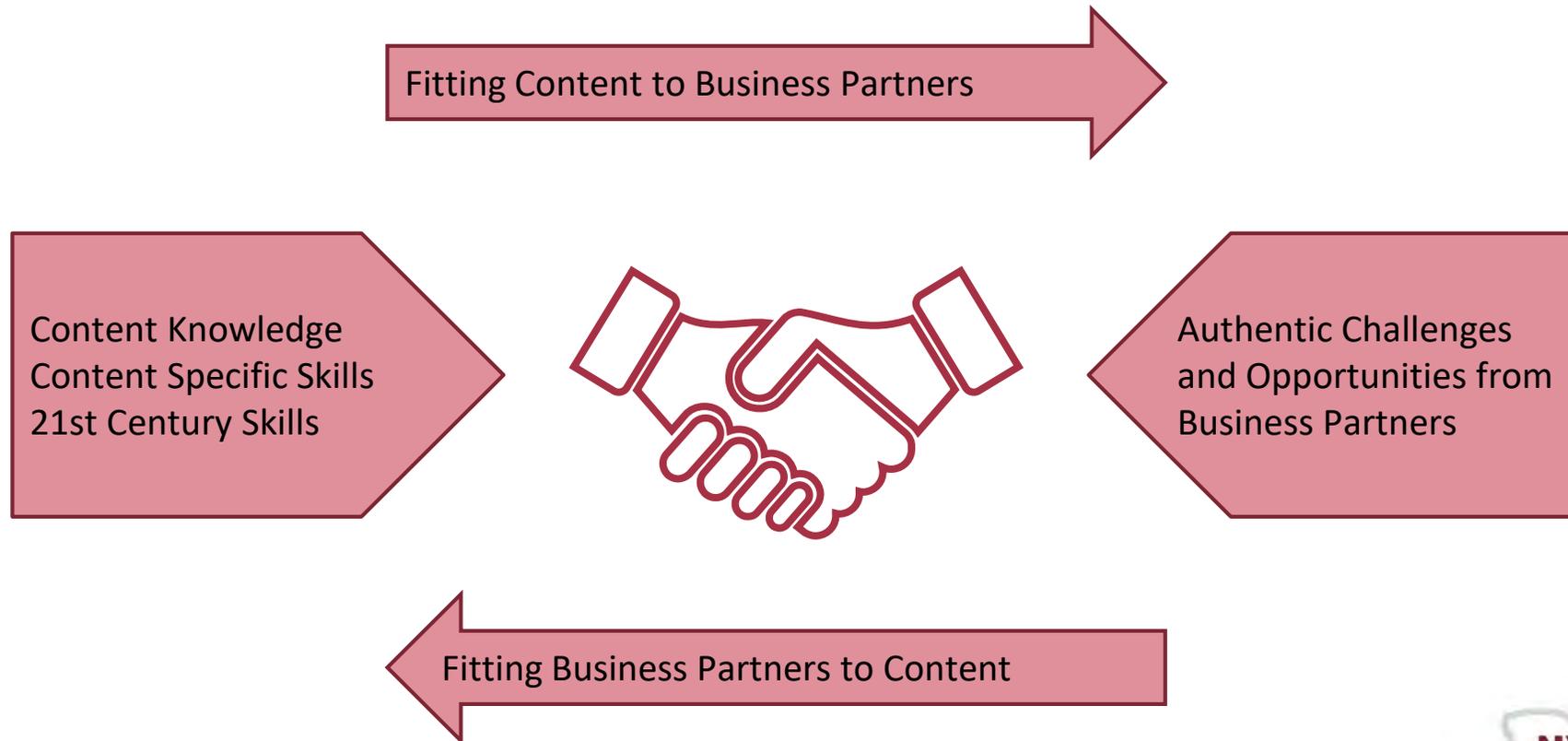
Final Products - Examples

Performances	Articles	Presentations	Videos
Podcasts	Models	Exhibitions	Service Projects
Essays	Lab Reports	Inventions	Business Plans
Advertisements	Comic Strips	Product Designs	Annotated Maps

Reflection

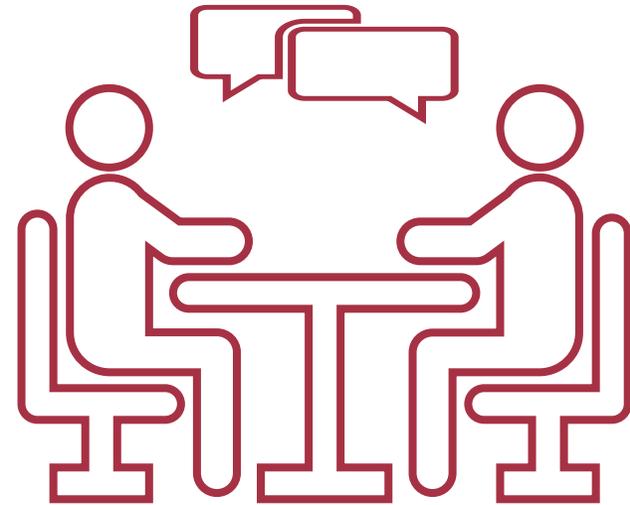


Incorporating Business Partners and Community Partners



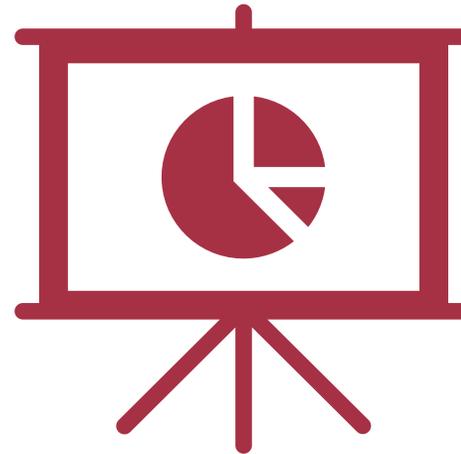
Workplace Challenges

- Students are presented with a problem for which a business partner is seeking a solution. (Example: Mohawk Fabric)
- Entry event: Field trip to gain understanding.



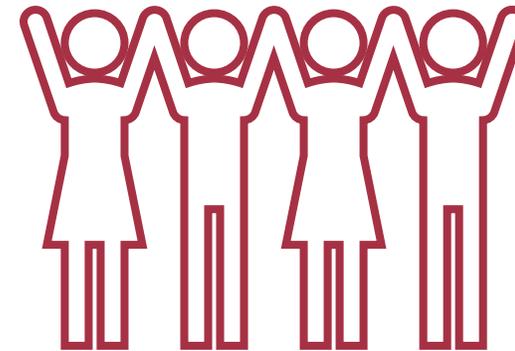
'Products' Presented to Businesses

- Students work in groups
- Workflow guided by benchmarks
- Workplace Challenge Expo
- Shark Tank-type presentations

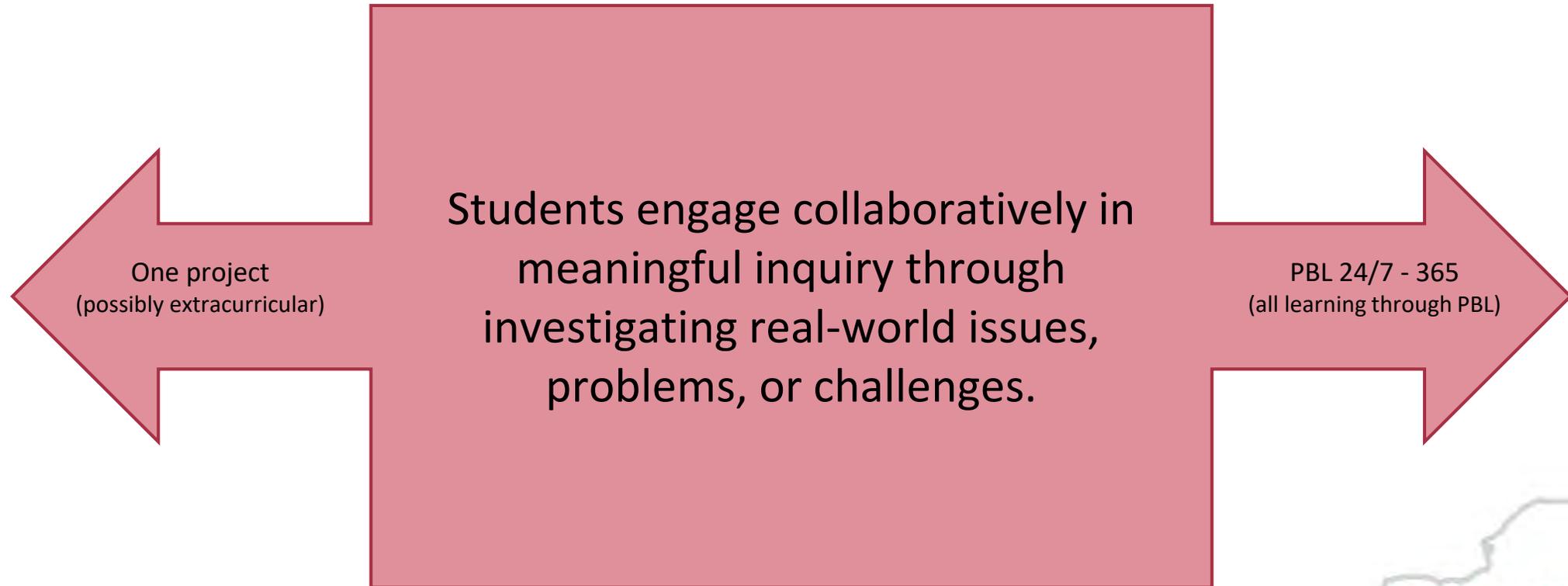


Takeaways for Students/Businesses

- School becomes a community resource
- Both students and businesses benefit from this relationship.

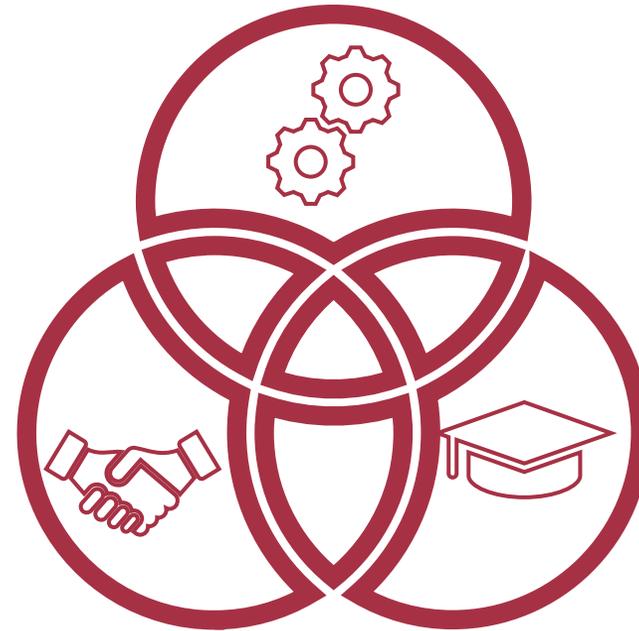


A Continuum of PBL Across PTECH



Professional and Academic skills

- Preparing students to meet state standards, while also prioritizing and teaching skills that meet 21st Century demands



Differences in Planning for PBL

Planning for a Traditional Classroom

- Teacher relies on textbook, curriculum guide, etc
- Teacher works alone and often in the evening, outside of school hours
- Follows a linear progression - makes use of text or other pre-written curriculum
- Primary focus is on **content**

Planning Project-Based Learning

- Teacher takes more active role in curriculum design
- Planning is done collaboratively
- Involves outside entities to serve as mentors, presentation panelists, and other supports (engaging business partners)
- Primary focus is the **process**



How Can We Support PBL Teachers?

Needs – Supports- Next Steps

- School Culture
- Physical space
- Time
- Intellectual/Creative support
- Other?
- Agency
- Empowerment
- Culture that allows for creativity, innovation, and risk-taking



Resources for Learning More

Buck Institute for Education: <http://www.bie.org/>

Edutopia: <http://www.edutopia.org/project-based-learning>

New Tech Network: <https://newtechnetwork.org/>

AnnaMaria Goderie, HFM PTECH: agoderie@hfmboces.org



Credits

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Graphics by New Tech Network



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Thank You!

WEBINAR #6: PROJECT BASED LEARNING FOR P-TECH
IS PART OF THE SIX WEBINAR SERIES: NYS P-TECH ORIENTATION

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