

Career-Connected Learning Suite

“

To find out what one is fitted to do,
and to secure an opportunity to do it,
is the key to happiness.

–John Dewey

”

Why P2C?

Because when education becomes relevant, learners **fully engage**.

- Relevance yields **motivation**
- Relevance increases **career readiness**



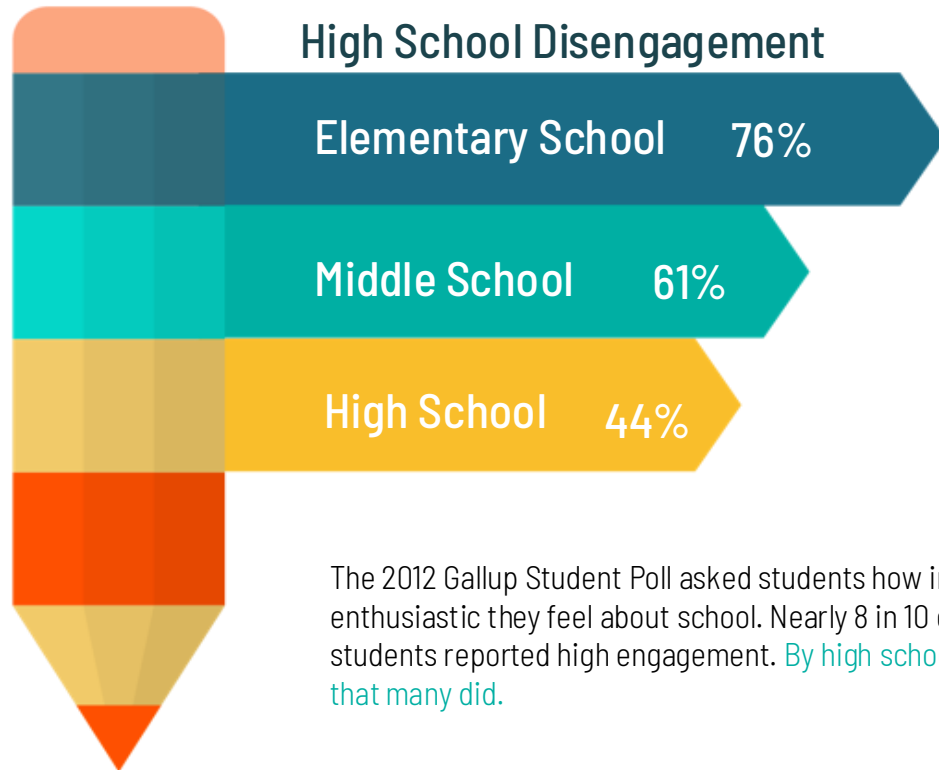
The Effect of **Motivation** on Dropout Prevention

Strategy effect sizes from meta-regression model*

STRATEGY	EFFECT SIZE
Career development/job training	0.81
Family engagement	0.67
Mentoring	0.63
Behavioral intervention	0.46
Literacy development	0.42
Work-based learning	0.26
School/classroom environment	0.25
Service-learning	0.21
Health and wellness	0.18
Academic support	0.11

**Data sourced from the National Dropout Prevention Center*

How can **relevance be increased** while supporting the pathway to postsecondary success for all students, particularly those traditionally underserved?



The 2012 Gallup Student Poll asked students how involved and enthusiastic they feel about school. Nearly 8 in 10 elementary students reported high engagement. **By high school only half that many did.**

Research shows...

When students experience **purpose** in their learning, there is an **increase** in:



Motivation to learn

(Frymier & Shulman, 1995; Jang, 2008)



Interest & engagement

(Assor, Kaplan, & Roth, 2002; Hulleman, Godes, Hendricks, & Harackiewicz, 2010; Hulleman & Harackiewicz, 2009)



Effort & persistence

(Trautwein & Ludtke, 2007; Yeager et al., 2014)



Task/course completion

(Fortenberry, Sullivan, Jordan, & Knight, 2007; Zusho, Pintrich, & Coppola, 2003)



Performance

(Hulleman et al., 2010; Hulleman & Harackiewicz, 2009; Malka & Covington, 2005)



Retention of new information

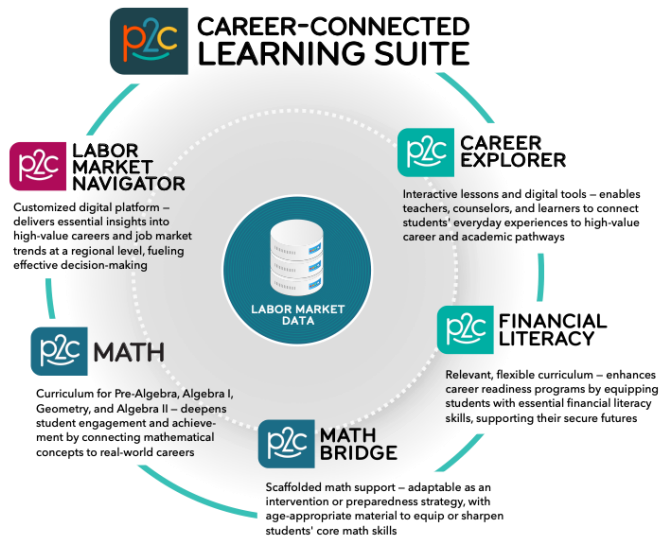
(Perin, 2001; Yeager et al., 2014)



PATHWAY 2 CAREERS

PRODUCTS

SERVICES



p2c SCHOOL SERVICES & INNOVATION

p2c CUSTOMER SUCCESS

LEADERSHIP & CONSULTING

PROFESSIONAL DEVELOPMENT

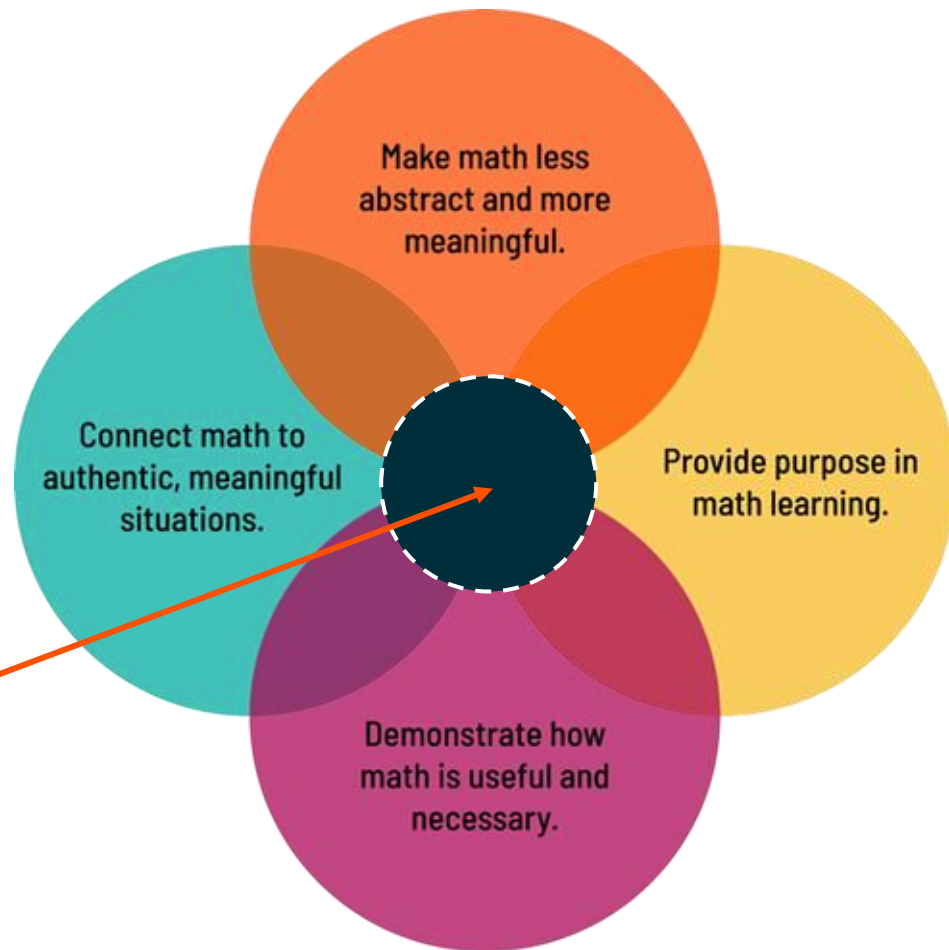
EARLY COLLEGE PROGRAMS

WORKFORCE DEVELOPMENT



In order to modernize math, we must:

Career-Connected Learning



WHO is P2C?

About P2C

P2C History

Pathway2Careers was founded in 2016 by Dr. Joseph Goins with the mission to provide **high value research, and educational materials** that yield actionable results for both the classroom and the workplace.

For nearly a decade, P2C has been at the forefront of **career-connected learning** with ready-to-implement solutions that work. Our products are supported by a career readiness model that increases student motivation and performance, while our research and support services have the capacity to alter policy and transform communities.

Our Vision

By connecting classroom and career paths, we believe we can transform not just the future prosperity of individual students, but the **economies of whole communities.**





We're P2C!

We believe when education
becomes relevant, learners can
fully engage.

WHAT is P2C?



RESEARCH

Supporting
education initiatives
and priorities with
actionable research



POLICY

Validating policy
issues in K-12,
post-secondary,
and business



PRACTICE

Data-informed and
evidence-based
practices to create
a robust career
readiness model

Our Mission

We're dedicated to clearing the biggest hurdles in education by challenging current approaches and motivating student learning through career-connected relevance.



The Four “E”s

What is at the intersection of

Education

Employment

Economic Development

that also addresses

Equity

at each stage?



WHY P2C?

Motivation

“

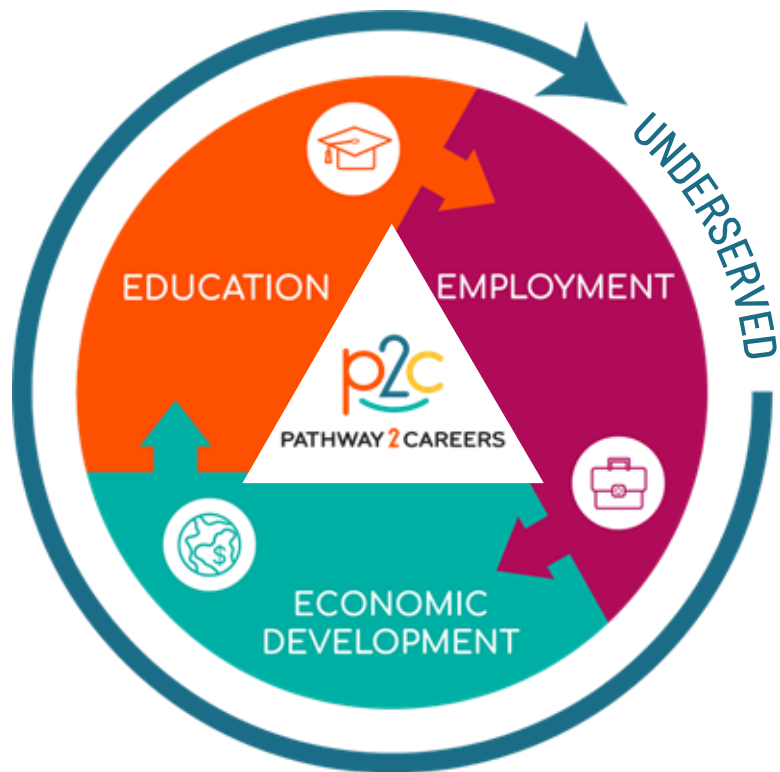
Tell me and I forget,
teach me and I may remember,
involve me and **I learn.**

– Xun Kuang

”

The Three “E”s

What is at the intersection of
Education
Employment
Economic Development
with an intentional focus on the
underserved
at each stage?



Career Readiness

“

Most high-paying jobs require additional education and training beyond a high school diploma.

We must make sure that our children,
particularly those who are traditionally underserved,
are prepared for and have access to postsecondary education.

– Former Governor Bob Wise (WV)
Alliance for Excellent Education

”

The Gap Between Education & Industry

Education



57%

of students who start a postsecondary program
earn a degree within 6 years.¹

13%

of **low income** students,
earn a degree within 6 years.²

¹ National Student Clearinghouse Research Center. (2018). Six-year outcomes. <https://nscresearchcenter.org/wp-content/uploads/SignatureReport16.pdf>

² The Pell Institute & PennAHEAD. (2021). *historical trend report*. <https://www.pellinstitute.org/pell-institute-indicators-2021/>

The Gap Between Education & Industry

Employment

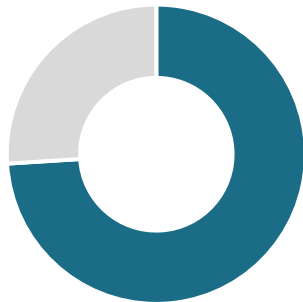


59% of recent grads are working in jobs that require a college degree.¹

¹ Pickert, R. (2021, November 5). New college grads are making gains in employment and wages. Bloomberg. <https://www.bloomberg.com/news/articles/2021-11-05/u-s-recent-college-grads-boost-wages-employment-in-pandemic>

The Gap Between Education & Industry

Economic Development



74%

of hiring managers agree that a “skills gap” persists in the current US labor and hiring economy.

1 U.S. Chamber of Commerce Foundation, (2020), *Hiring in the modern talent marketplace*.

The Gap Between Education & Industry



Education



Employment

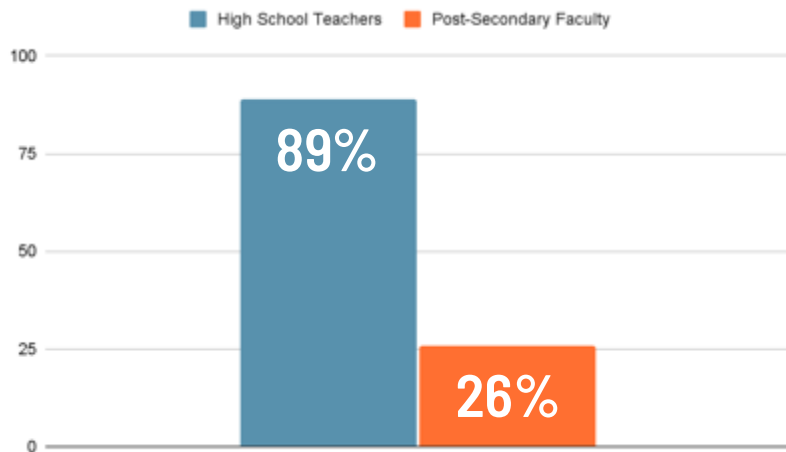


Economic
Development

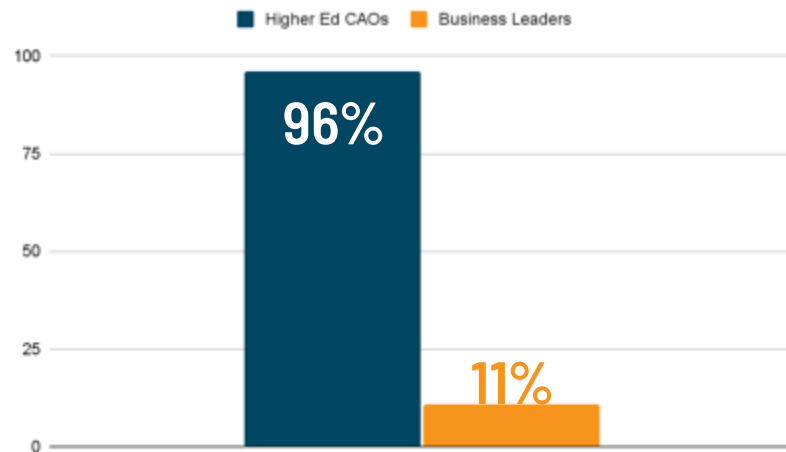


EQUITY ISSUES

The Gap Between Education & Industry



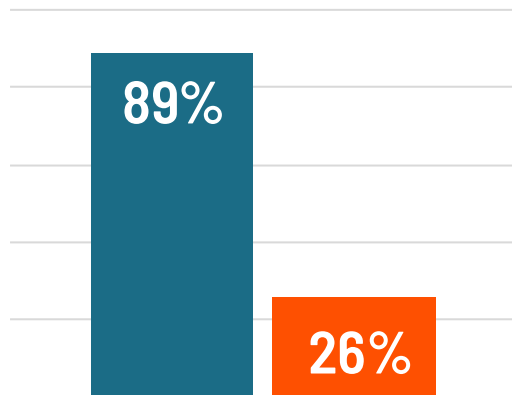
Percent who believe incoming higher ed freshmen are "ready"



Percent who have confidence graduates have the **skills required** in the business world

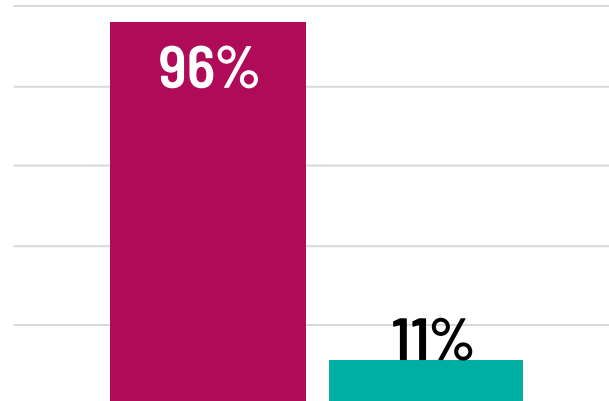
The Gap Between Education & Industry

■ High school teachers ■ Post-Secondary Faculty



% who believe incoming higher ed freshmen are "ready"

■ Higher Ed CAOs ■ Business Leaders



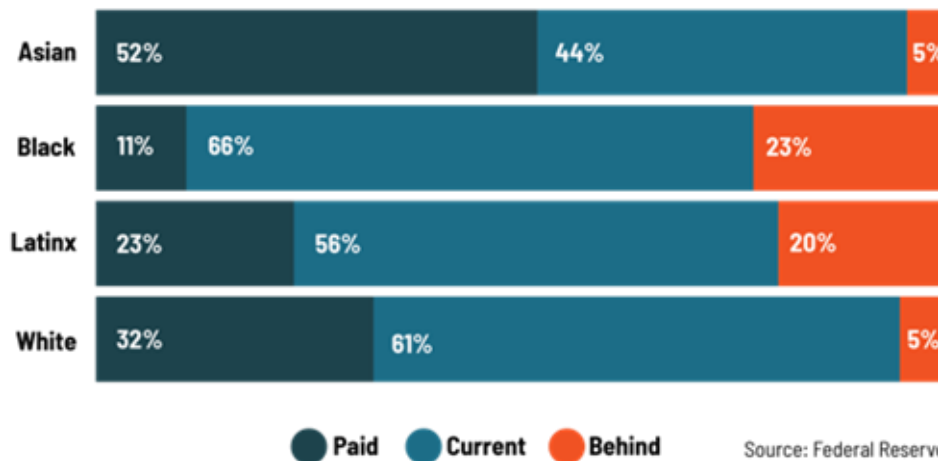
% who have confidence graduates have the **skills required** in the business world

Significant Long-Term Impact

When young people have **low employability**, they experience greater challenges in **reducing their student loan debt**.

Payment Status of Student Loans

Among borrowers between ages 18-39



Product Spotlight

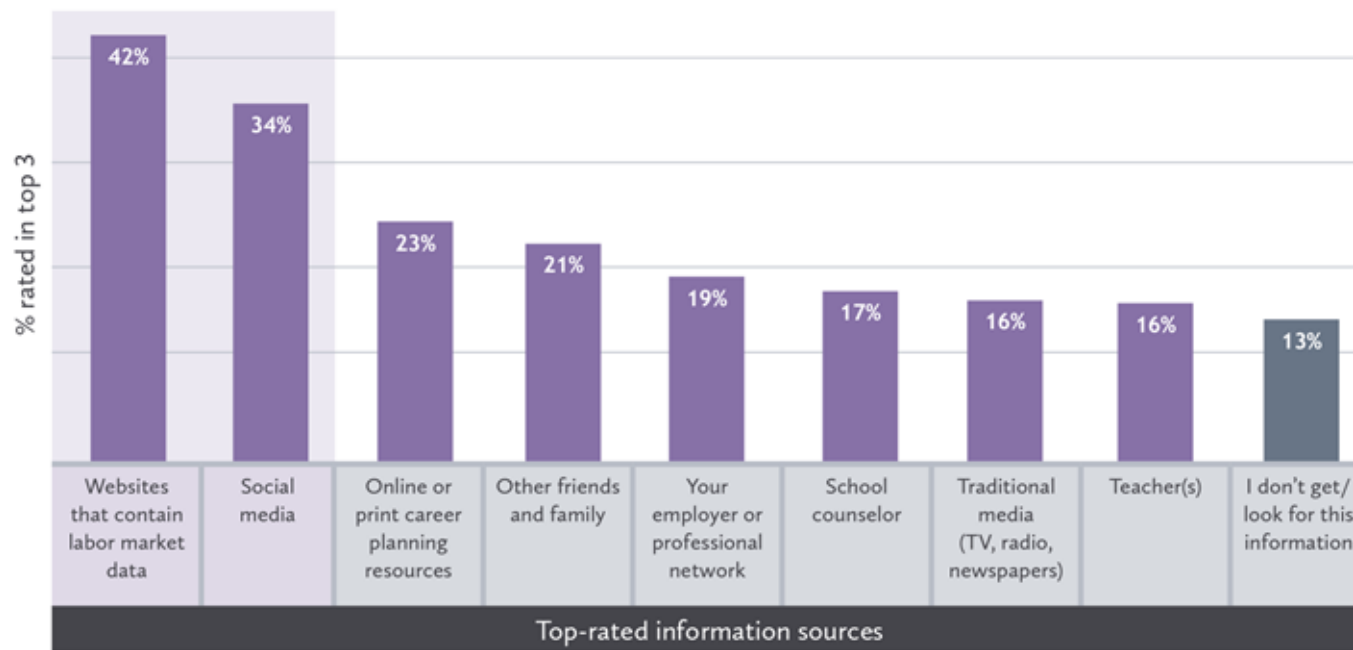
Labor Market Navigator

Benefits of Leveraging Labor Market Data

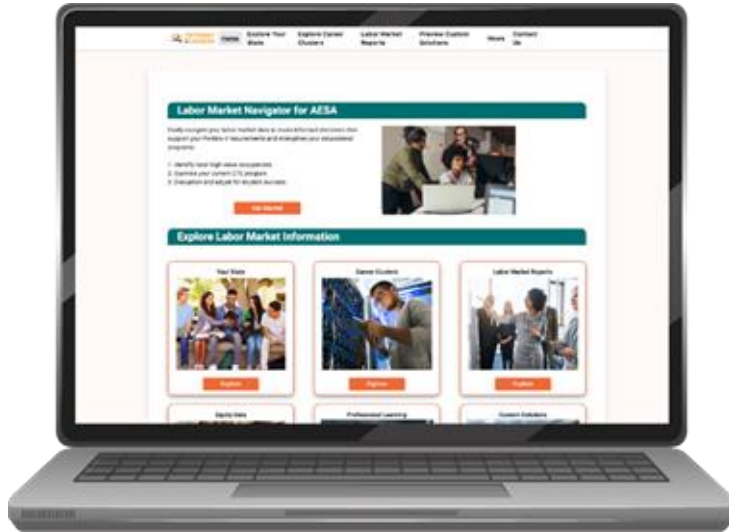
- Use labor market data to **understand career destinations** for students in their local areas
- **Identify occupations** expected to be high in demand and wage
- **Align educational practices** with critical skills
- **Prioritize learning opportunities** that prepare students for good jobs in their communities



Where do Students Learn About Careers?



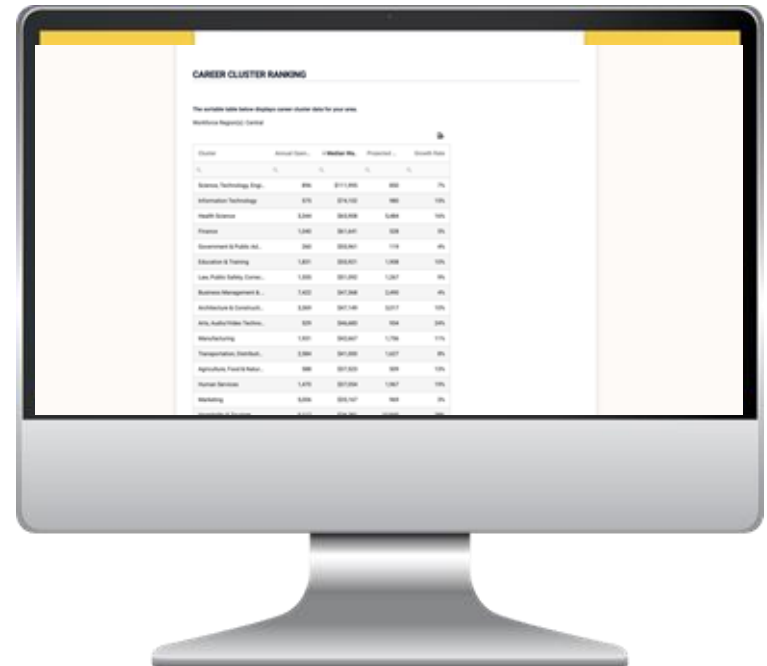
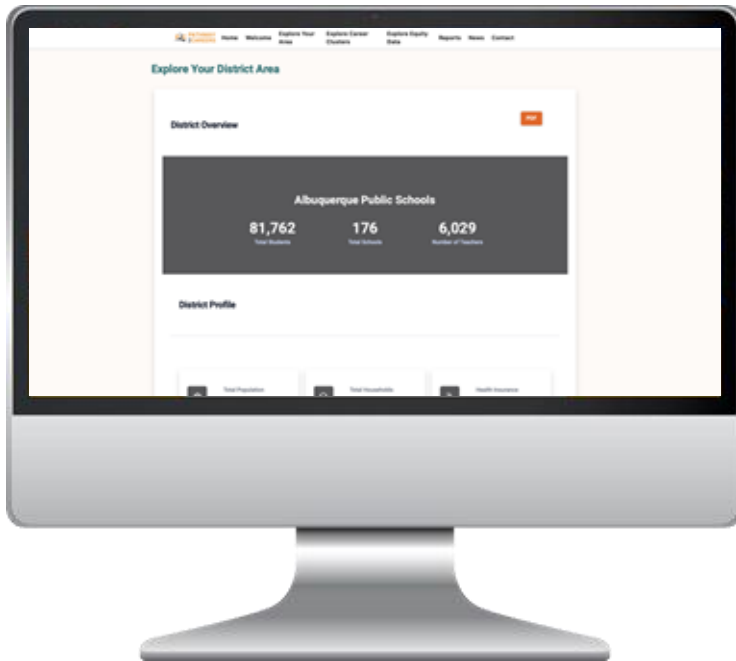
Labor Market Navigator (LMN)



- The LMN dashboard makes the **complicated simple**
- Educators and learners can navigate complex data in an **engaging and digestible way**

Labor Market Navigator (LMN)

New Mexico Case Study



Labor Market Navigator (LMN)

 **Career Cluster : Agriculture, Food & Natural Resources**

Job Zone 1 High School Diploma or Less	Job Zone 2 High School Diploma	Job Zone 3 Certificate or Associate's Degree	Job Zone 4 Bachelor's Degree	Job Zone 5 Master's or Doctorate Degree
Farmworkers and Laborers, Crop, Nursery, and Gr... Annual Openings = 805 Median Wage = \$19,980	Animal Caretakers Annual Openings = 312 Median Wage = \$24,510	Forest and Conservation Technicians Annual Openings = 110 Median Wage = \$35,140	Environmental Science and Protection Technicians... Annual Openings = 73 Median Wage = \$44,320	Environmental Engineers Annual Openings = 36 Median Wage = \$96,920
Agricultural Equipment Operators Annual Openings = 85 Median Wage = \$28,330	Farmworkers, Farm, Ranch, and Aquacultural Anim... Annual Openings = 140 Median Wage = \$32,670	Water and Wastewater Treatment Plant and System... Annual Openings = 107 Median Wage = \$40,690	Biological Technicians Annual Openings = 30 Median Wage = \$41,910	Natural Sciences Managers Annual Openings = 32 Median Wage = \$97,910
Graders and Sorters, Agricultural Products Annual Openings = 40 Median Wage = \$20,010	Refuse and Recyclable Material Collectors Annual Openings = 85 Median Wage = \$35,670	Hazardous Materials Removal Workers Annual Openings = 92 Median Wage = \$48,630	Foresters Annual Openings = 14 Median Wage = \$52,390	Zoologists and Wildlife Biologists Annual Openings = 17 Median Wage = \$64,900
Agricultural Workers, All Other Annual Openings = *** Median Wage = \$35,130	Pesticide Handlers, Sprayers, and Applicators, ... Annual Openings = 28 Median Wage = \$47,150	Farm Equipment Mechanics and Service Technicians... Annual Openings = 10 Median Wage = \$55,770	Environmental Engineering Technologists and Tec... Annual Openings = 9 Median Wage = \$67,210	Soil and Plant Scientists Annual Openings = 11 Median Wage = \$70,420
-	Pest Control Workers Annual Openings = *** Median Wage = \$38,790	-	Food Scientists and Technologists Annual Openings = *** Median Wage = \$44,740	-

The career cluster results in the P2C labor market report allows you to overlay a skill or set of skills with relevant local job demand.

Additional Alignment Resources

Local High-Value Careers
High-value careers are high-demand, high-wage careers that are stable or growing in demand.

School Name: _____
School District: _____
Workforce Region: _____

 **Business Management and Administration**

Occupation	Annual Salary	Median Wage	Career Pathway	Information Link

 **Education and Training**

Occupation	Annual Salary	Median Wage	Career Pathway	Information Link

Midwest Pathways/Careers™ 2020 Trademark Midwest, LLC 



Career Cluster _____ Career Pathway _____

Job Zone	English Language Arts	Math	Science	Social Studies	Other Courses	Local Districts and Schools
9						
10						
11						
12						

Postsecondary Programs / Majors

Postsecondary Program / Major	Annual Salary	Median Wage	Career Pathway	Information Link

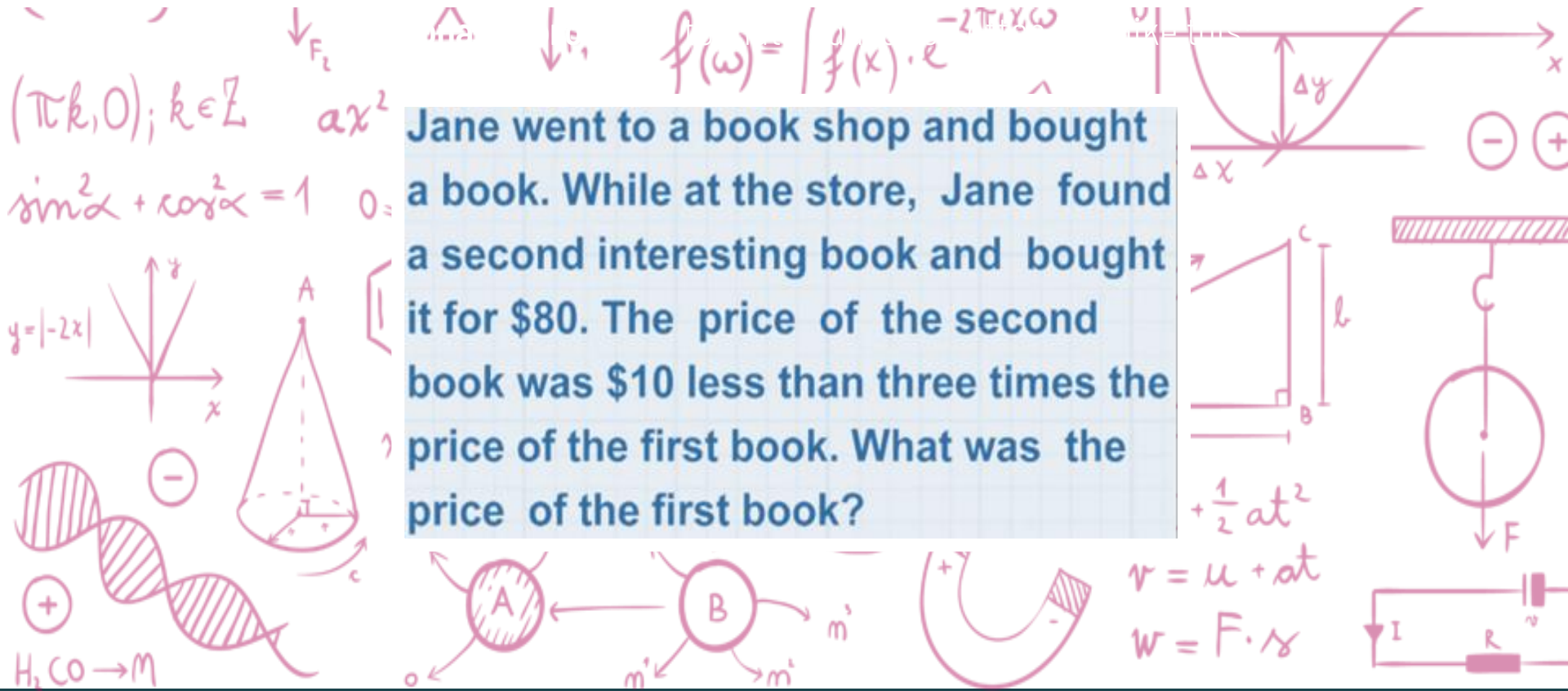
Midwest Pathways/Careers™ 2020 Trademark Midwest, LLC 

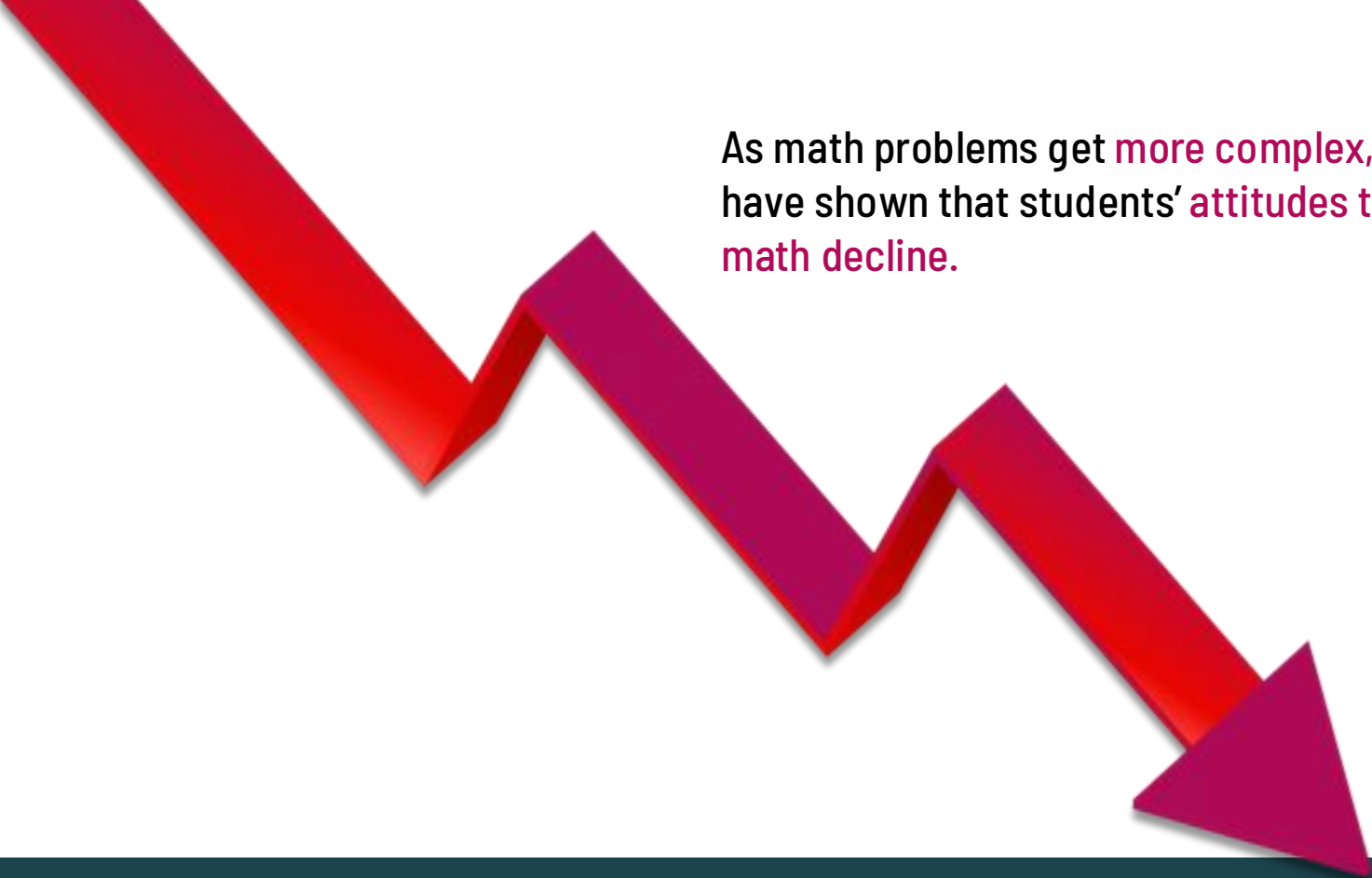


Product Spotlight

P2C Math

Traditional approaches to math education often look like this:





As math problems get **more complex**, studies have shown that students' **attitudes toward math decline**.

Benefits of Career-Connected Learning

- Connecting math to careers can be a powerful approach to incorporate **purpose** into math learning.
- Doing so will improve students' **attitudes** toward math and enhance **motivation** to acquire the critical math skills students will need for **employment success**.



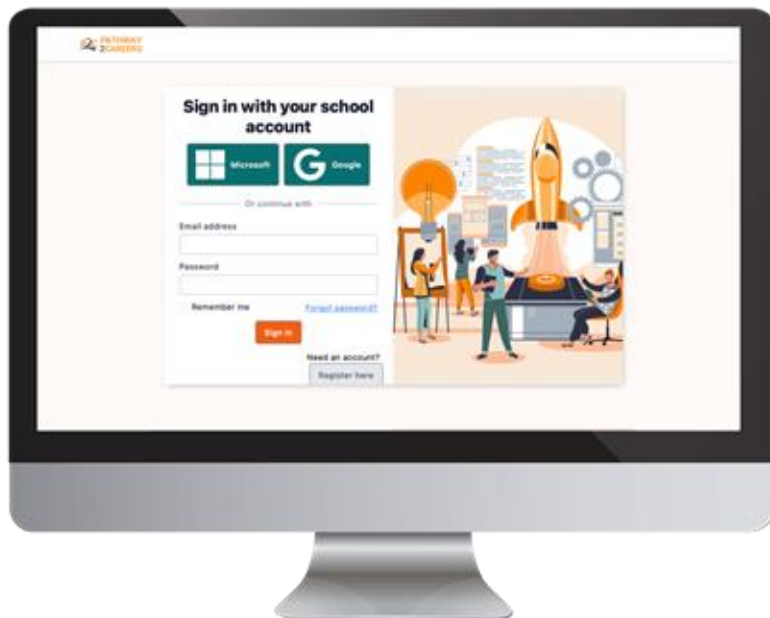
With Career-Connected Learning....



...students will see:

- How math is applied in **meaningful, everyday tasks**
- The relationship between math proficiency and **successful job performance**
- The value in using math to reach **job-related goals**

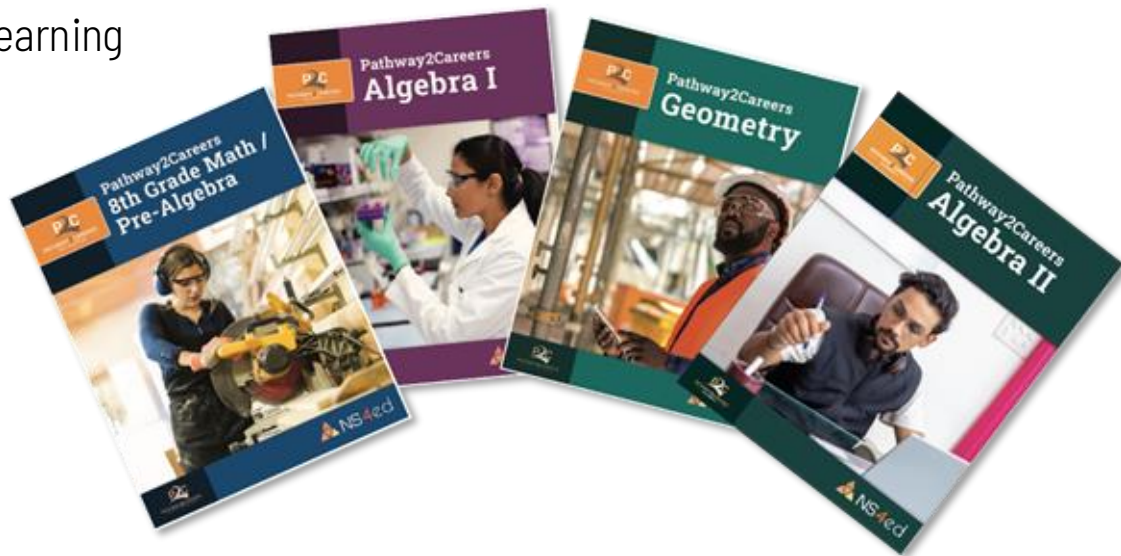
P2C Math Connects Curriculum to Careers



- Comprehensive career exploration and pathway development system
- Connecting learning to the local/regional employers needs in the workforce

P2C Math Objectives

- Students understand the value of math skills in the workplace
- Students benefit from career exposure
- Students develop purpose in learning



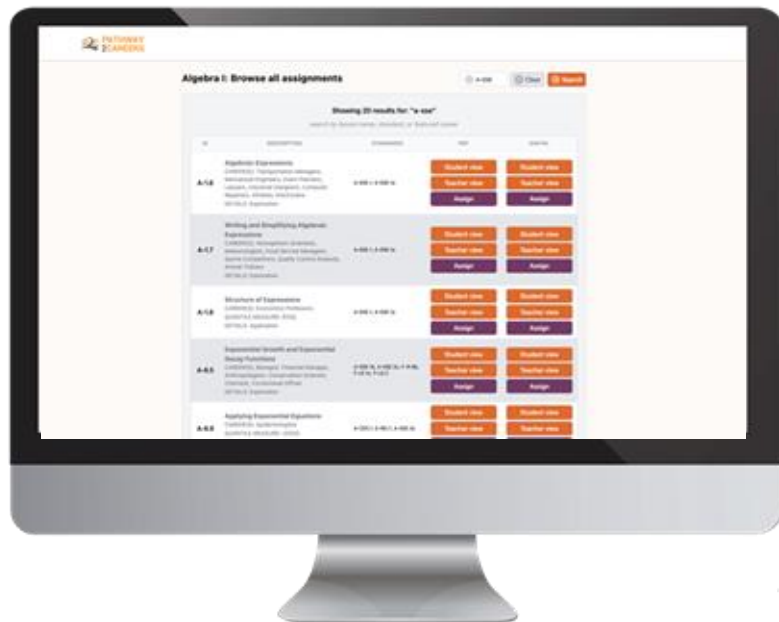
650+ Careers to Discover

 Pathway2Careers Algebra I Table of Contents			
1. Algebra Foundations			
Title	Type	Mathematical Practices	Career(s)
A-1.1 Real Numbers	Exploration	1, 2, 3	Multiple
A-1.2 Quantities and Measurement	Exploration	1, 2, 4	Multiple
A-1.3 Applying Dimensional Analysis	Application	4, 6, 7	Dental Laboratory Technicians
A-1.4 Modeling with Quantities	Application	1, 2, 4	Terrazzo Workers and Finishers
A-1.5 Precision and Accuracy	Application	1, 2, 4	Environmental Science And Protection Technicians
A-1.6 Algebraic Expressions	Exploration	1, 2, 7	Multiple
A-1.7 Writing and Simplifying Algebraic Expressions	Exploration	2, 4, 7	Multiple
A-1.8 Structure of Expressions	Application	1, 4, 7	Economics Teachers, Postsecondary
A-1.9 Seeing Structure in Expressions	Application (Prerequisite: Technology)	1, 2, 4, 7	Database Architects
2. Solving Equations			
Title	Type	Mathematical Practices	Career(s)
A-2.1 Solving One- and Two-Step Equations	Exploration	1, 2, 7	Multiple
A-2.2 Writing Linear Equations	Application	1, 2, 4	Credit Counselors
A-2.3 Solve Multi-Step Equations	Exploration	1, 2, 7	Multiple
A-2.4 Solving Linear Equations with a Variable on One Side	Application	1, 2, 4	Veterinarians
A-2.5 Solving Linear Equations with a Variable on Both Sides	Application	1, 4, 5	Bookkeeping, Accounting, and Auditing Clerks
A-2.6 Introduction to Literal Equations and Formulas	Exploration	2, 7, 8	Multiple

- Nearly 200 application lesson offers in-depth exploration of specific math concepts in the context of a spotlighted career
- Occupations represent high-value careers in multiple fields
 - High-Demand (O*NET Bright Outlook)
 - High-Wage (above \$35,000)
 - All 16 Career Clusters

P2C Math Curriculum

- Aligned with Specific State Standards + Common Core State Standards
- Standards are clearly identified in every lesson
- Each skill and concept explored is tracked



Best Practices & Quality Content

- Written and evaluated by experts in math curriculum development
- Content is presented using well-established methods and best practices in math instruction

P2C PATHWAY 2 CAREERS GEOMETRY		Pathway2Careers Geometry Table of Contents	
	CCSS	Occupation	
CHAPTER 1 Geometry Fundamentals	1.1 Use Midpoint and Distance Formulas	1 G.CO.1	Emergency Medical Technician
	1.2 Angle Measures and Angle Bisectors	9 G.CO.1	Occupational Therapist
	1.3 Use Theorems About Angles	17 G.CO.9	Carpenter
	1.4 Estimate Measures Using Modeling	25 G.MG.1, G.MG.2	Event Planner
CHAPTER 2 Parallel and Perpendicular Lines	2.1 Use Theorems about Parallel Lines	31 G.CO.9	Tree Trimmer and Pruner
	2.2 Show Lines Are Parallel	39 G.CO.9	Rail Track Equipment Operator
	2.3 Use Theorems about Perpendicular Lines	47 G.CO.9	Brickmason and Blockmason
	2.4 Equations of Parallel and Perpendicular Lines	55 G.GPE.5	Civil Engineer
CHAPTER 3 Transformations	3.1 Apply Translations	63 G.CO.2, G.CO.4	Biological Technician
	3.2 Apply Reflections	69 G.CO.2, G.CO.4	Marine Engineer and Naval Architect
	3.3 Apply Rotations	75 G.CO.2, G.CO.4	Air Traffic Controller
	3.4 Investigate Symmetry	81 G.CO.3	Architecture Professor

Lessons Include:

LESSON 10

Volume of Cylinders, Cones, and Spheres



CAREER SPOTLIGHT: Agricultural Engineer

Occupation Description

Agricultural engineers work on the storage and processing of agricultural products. They use computer programs to solve problems and design various systems, structures, and facilities. Their work can involve pollution and environmental issues. They work in various fields of farming, such as aquaculture, forestry, and food processing.

This career is relevant to New Mexico as agricultural engineers are employed in the industry sector of sustainable agriculture and value-added agriculture.

Agricultural engineers who solve design problems involving structure will need to understand and apply concepts involving volume.

Education

Agricultural engineers need a bachelor's degree, often in agricultural engineering or biological engineering. Students study advanced calculus, physics, biology, and chemistry.

Potential Employers

Agricultural engineers held about 2,600 jobs in 2018. The largest employers of agricultural engineers were as follows:

Crop production	31%
Federal government, excluding postal service	13%
Colleges, universities, and professional schools; state	10%
Management, scientific, and technical consulting services	8%
Engineering services	4%

Watch a Video about Agricultural Engineers:
<https://www.bls.gov/oc/architecture-and-engineering/agricultural-engineers.htm>

 PBS4x4™ Pathways2Careers® 2019. Trademark PBS4x4, LLC

Career Cluster

Agriculture, Engineering, Food and Natural Resources

Career Pathway

Power, Structure and Technical Systems

Career Outlook

Salary Projections:

- Low-End Salary, \$46,500
- Median Salary, \$77,110
- High-End Salary, \$116,850
- Jobs in 2018: 2,600
- Job Projections for 2028: 2,800 (increase of 8%)

Geometry Concepts

- Apply volume of solids.
- Apply concepts of density.
- Apply geometric methods to solve design problems.

Is this a good career for me?

Agricultural engineers tend to:

- Use computers to design equipment, systems, or structures
- Modify factors that affect production
- Test equipment
- Oversee construction and production operations

1

- Job Duties and Responsibilities
- Education Requirements
- Types of Employers
- Career Cluster and Pathway
- Labor Market Data (wage and demand projections)
- Occupation-Related Math Concepts
- Common Work Tasks

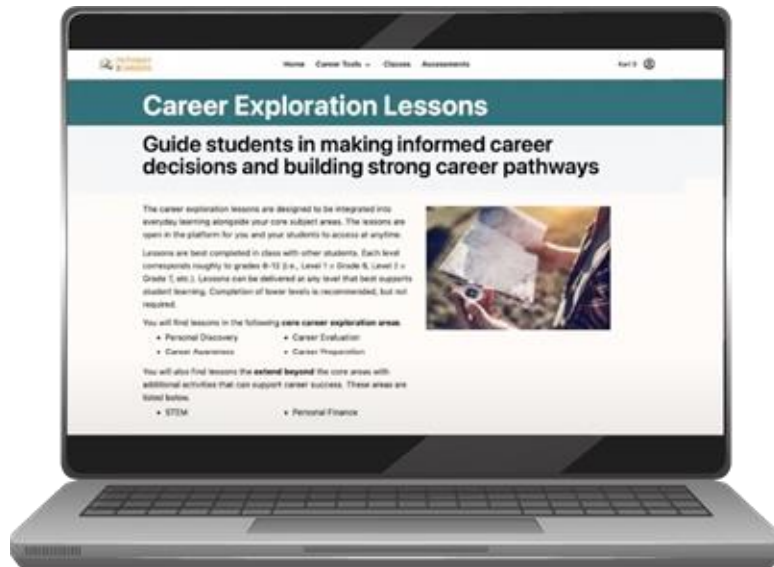
Product Spotlight

P2C Career Explorer

P2C Career Explorer

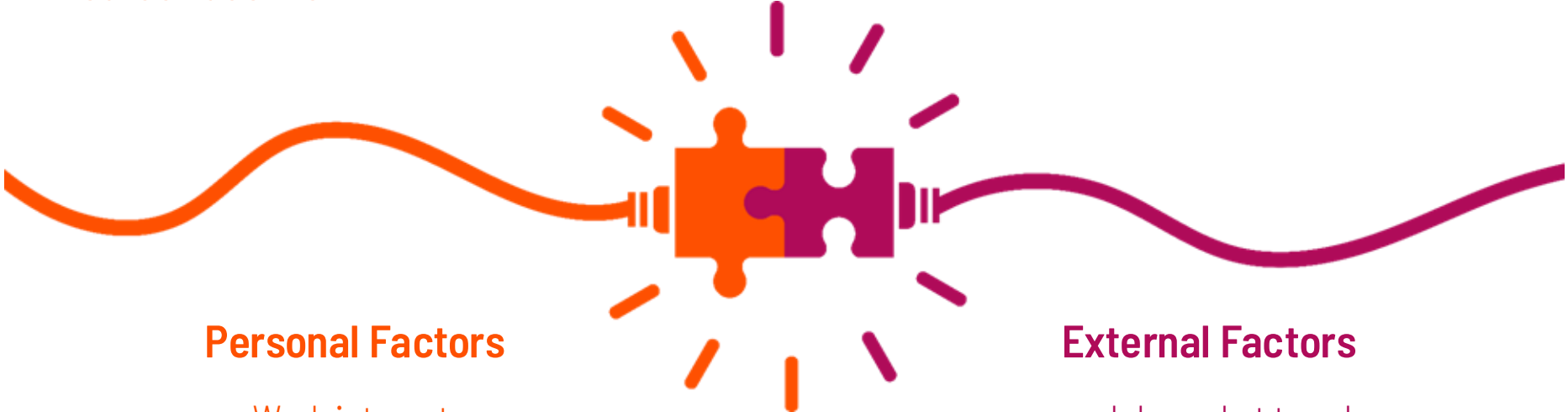
How do we...

- scaffold career exploration so that students are learning the right information at the right grade level?
- put that model in the hands of all educators?



P2C Career Explorer

Connects personal factors to external factors so students can **make informed career decisions**.



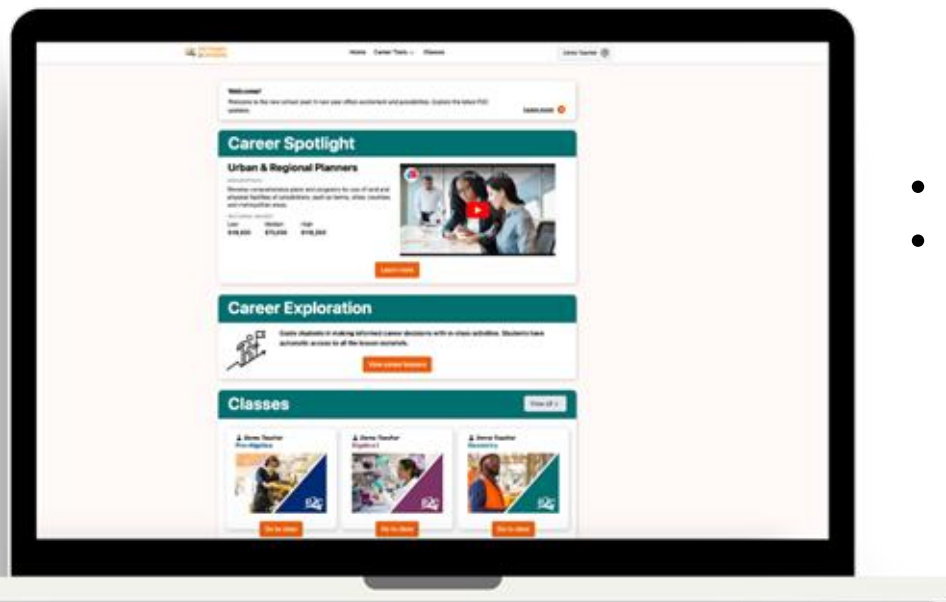
Personal Factors

- Work interests
- Work values
- Lifestyle aspirations

External Factors

- Job market trends
- High-value careers
- Local job opportunities

P2C Career Explorer



- Career exploration is not a one-time event
- It is fully integrated within the standards-aligned content

The Architecture of P2C Career Exploration Curriculum

Lessons span 7 grades

- Grades 6–12
- 10 lessons per grade
- 70 total lessons

Multiple subject integration

- English language arts
- Mathematics
- Science
- Social Studies
- Physical Education

Dual learning objectives

- Career exploration objectives
- Subject-specific objectives

WHO Does P2C Work For?

Efficacy & Testimonials

Positive results emerge as usage in **New Mexico** grows.

Algebra I

# of students	State Pass Rate	P2C Pass Rate
1,184	76.31%	88.94%

Geometry

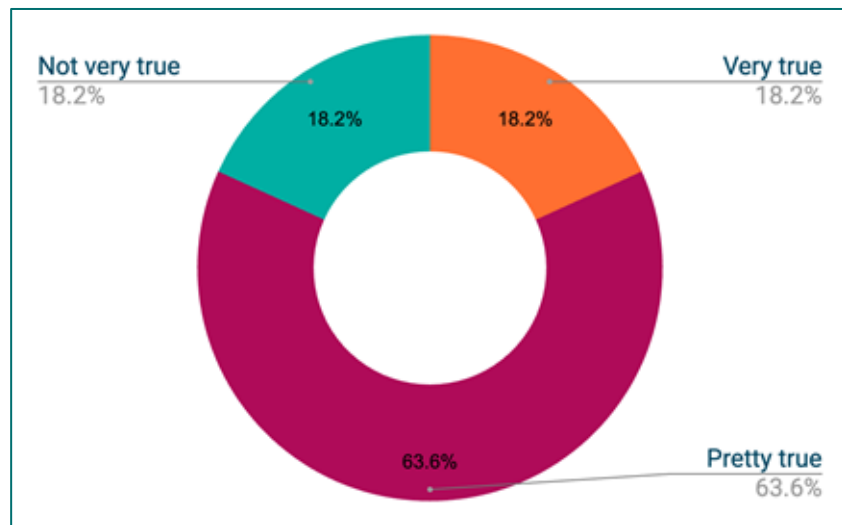
# of students	State Pass Rate	P2C Pass Rate
987	79.45%	88.65%



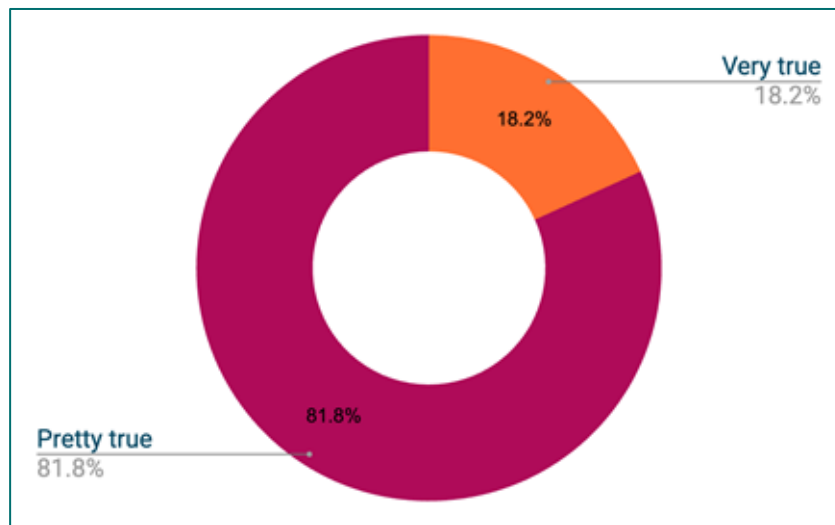
With extended P2C use...

Surveys show student interest in math increases.

Survey 1



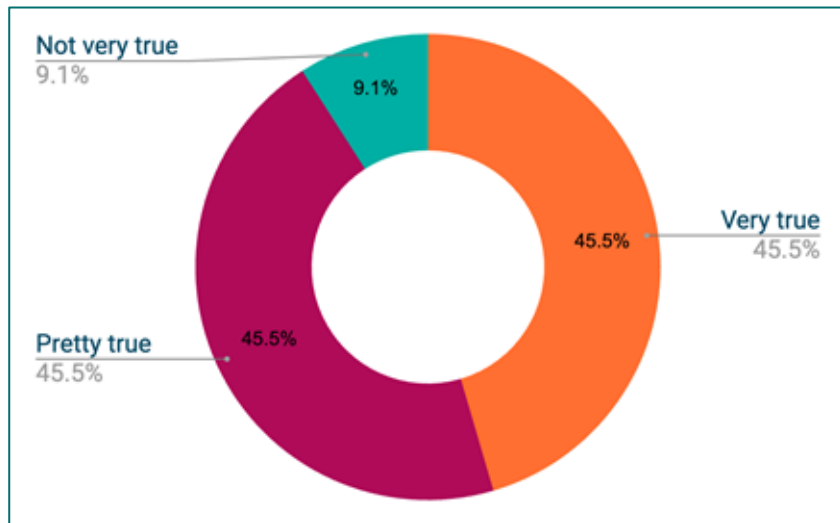
Survey 2



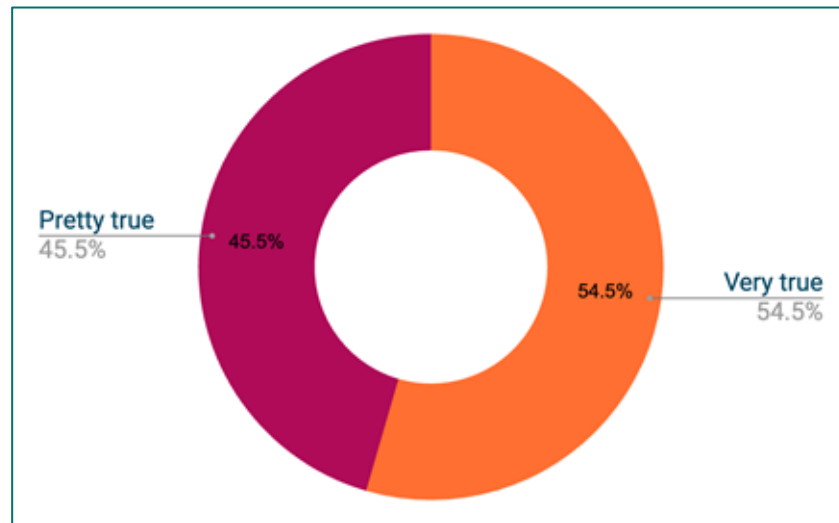
With extended P2C use...

Surveys show student interest in career exploration increases.

Survey 1



Survey 2





Dr. Joseph Goins, CEO



joseph.goins@p2c.org



865.414.0033

CTE Fact Check



What is the HS graduation rate for CTE students nationwide? ¹

- A) 81%
- B) 73%
- C) 60%
- D) 93% ←



What percent of students who take 2 CTE credits enroll in post-secondary? ²

- A) 58%
- B) 91% ←
- C) 75%



What is the college completion rate for CTE concentrators? ³

- A) 96% ←
- B) 80%
- C) 56%

¹ www.perkins.ed.gov, 2018 enrollment and performance data.

² Association for Career and Technical Education (ACTE), 2018.

³ Office of Career, Technical, and Adult Education, 2021-22 enrollment and performance data.

Initiatives to Address Career-Readiness Gaps

Perkins V

- ↳ **Purpose:** To develop more fully the academic knowledge and technical and employability skills of secondary education students and postsecondary education students who elect to enroll in career and technical education programs.

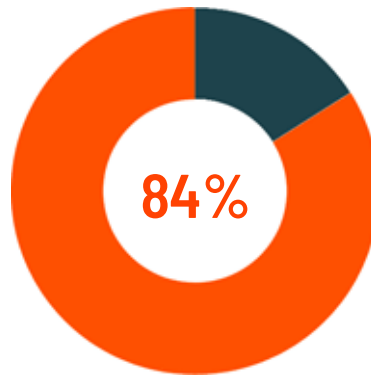


Initiatives to Address Career-Readiness Gaps

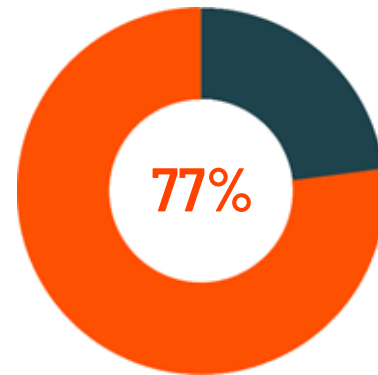
Early College

Purpose: An effective way to increase college-going and college completion.

Students moving on to post-secondary education



Early college students



Control students

Career Pathways

From the student & educator perspective



Talent Pathways

From the employer perspective



HOW does P2C work?

Program Alignment



Assess Needs

Use data to diagnose needs and establish policies for effective career resources.

Plan

Develop and prioritize strategies that align to your vision and ensure students have workplace skills.

Operationalize

Extend plans to reach and engage stakeholders, including teachers and students.

Maintain Momentum

Support ongoing success through community communications and stakeholder involvement.

Assess Needs

Assess Needs



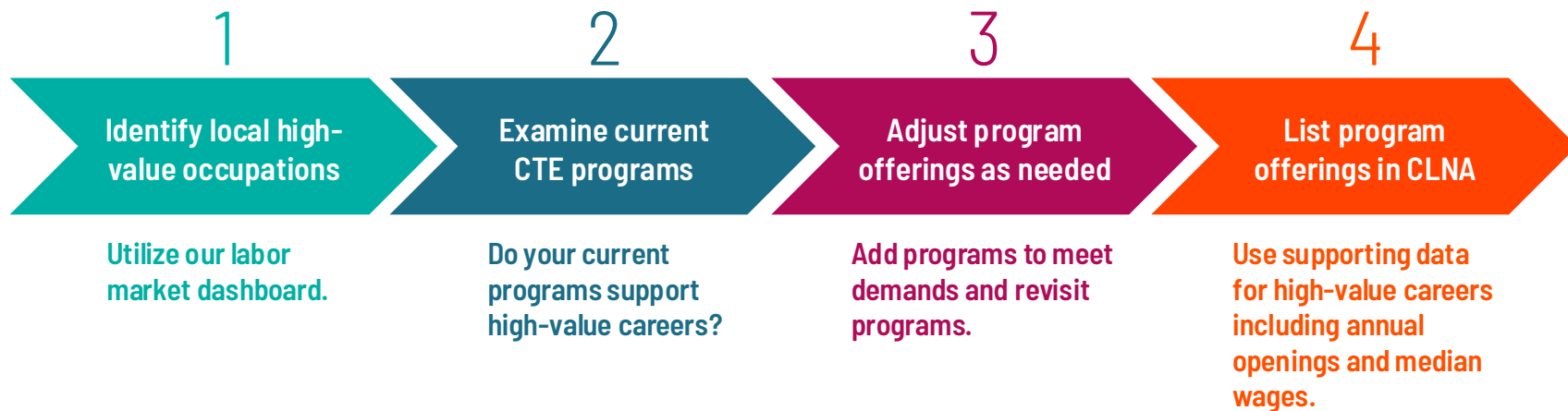
Assess Needs

Use data to diagnose needs and establish policies for effective career resources.

- Explore high-value careers for sixteen career clusters
- Understand programs associated with high-value careers in each cluster
- Gather information to evaluate current programs and develop plans for adding, revising, or removing programs
- Align programs to high-value careers

Labor Market Navigator is a Policy Tool

How to evaluate your alignment:



Additional Benefits

- Have access to **complete high-value careers** table for 16 career clusters
- **Understand education programs** associated with high-value careers in each cluster
- Reference necessary information to **evaluate current programs and develop plans** for adding, revising, or removing programs
- **Recommend changes** to align programs to high-value careers



Plan

Program Alignment



Assess Needs

Use data to diagnose needs and establish policies for effective career resources.

Plan

Develop and prioritize strategies that align to your vision and ensure students have workplace skills.

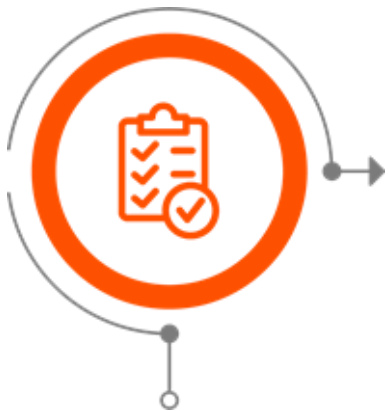
Operationalize

Extend plans to reach and engage stakeholders, including teachers and students.

Maintain Momentum

Support ongoing success through community communications and stakeholder involvement.

Plan



Plan

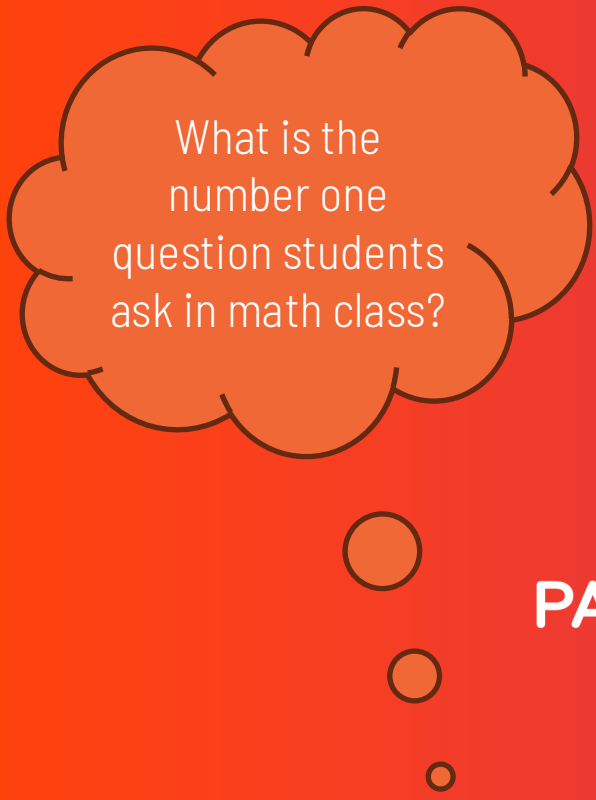
Develop and prioritize strategies that align to your vision and ensure students have workplace skills.

- **Establish criteria** to select career-connected learning initiatives.
- **List existing programs** offering career-connected learning.
- Identify areas to **infuse career-connected learning**.
- **Select new programs** and initiatives to motivate, engage, and align to your strategic vision.

Career-Connected Programs Should Include:

- Meaningful learning experiences
- Clear and accurate information about local career opportunities
- Upscale learning efforts to teach valued skills





What is the
number one
question students
ask in math class?



PATHWAY 2 CAREERS

P2C Math is not....

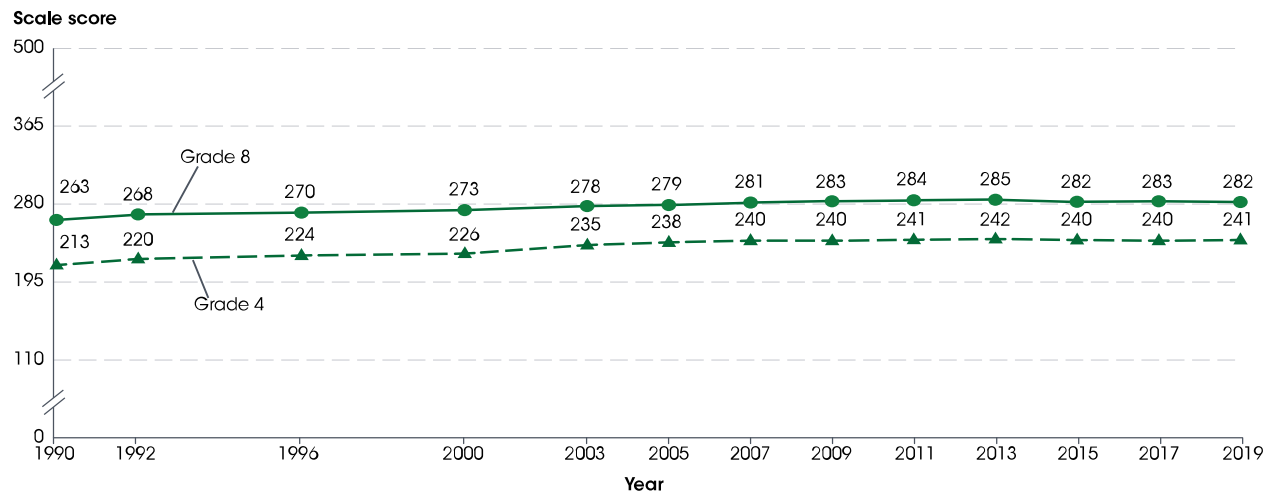
About creating a better math problem, but instead answering the most often asked question
“When will I ever need to know this in the real world?”

- P2C Math utilizes **Understanding by Design** (Wiggins and McTighe) framework
- Focused on student learning and motivation
- Career-connected learning is a powerful approach to incorporate purpose into math learning



Traditional Approaches to Math Instruction

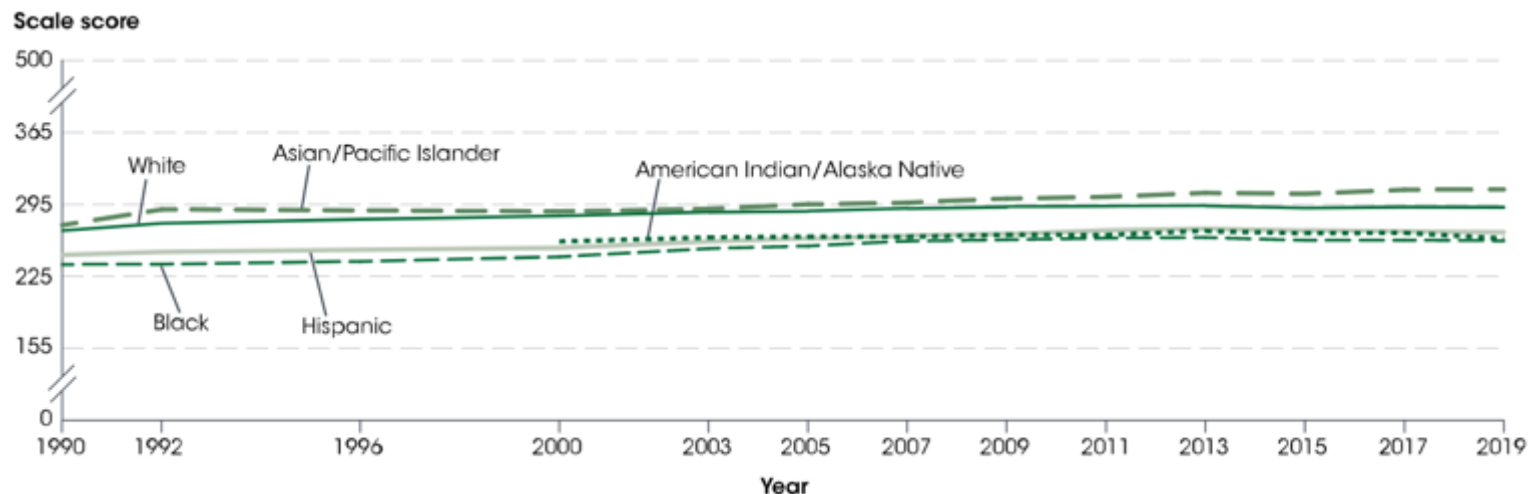
Average National Assessment of Educational Progress (NAEP) mathematics scale scores of 4th- and 8th-grade students: Selected years, 1990–2019



Note: A similar trend is observed for grade 12 results. Grade 12 mathematics scores are not shown because they are reported on a scale of 0 to 300.

Traditional Approaches to Math Instruction

Average National Assessment of Educational Progress (NAEP) mathematics scale scores of 8th-grade students, by selected characteristics: Selected years, 1990-2019



Source: The Condition of Education 2020

LESSON 4.9

Apply Graphs of Proportional Relationships

CAREER SPOTLIGHT: Manufacturing Engineers

Occupation Description

Industrial engineers find ways to eliminate wastefulness in production processes. They devise efficient systems that integrate workers, machines, materials, information, and energy to make a product or provide a service.

Some industrial engineers, called manufacturing engineers, focus entirely on the automated aspects of manufacturing processes. They design manufacturing systems to optimize the use of computer networks, robots, and materials.

Education

Industrial engineers typically need a bachelor's degree in industrial engineering or industrial engineering technologies. However, many industrial engineers have degrees in mechanical engineering, electrical engineering, manufacturing engineering, or general engineering. Interested students should take high school courses in mathematics, such as algebra, trigonometry, and calculus; computer science; and sciences such as chemistry and physics.

Potential Employers

The largest employers of industrial engineers are as follows:

Transportation equipment manufacturing	18%
Computer and electronic product manufacturing	13%
Professional, scientific, and technical services	12%
Machinery manufacturing	8%
Fabricated metal product manufacturing	6%

Watch a Video about industrial engineers:
<https://cdn.careeronestop.org/OccVids/OccupationVideos/17-2112.00.mp4>



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Career Cluster

Science, Technology, Engineering & Mathematics

Career Pathway

Engineering and Technology

Career Outlook

- Salary Projections:
 Low-End Salary, \$57,950
 Median Salary, \$88,950
 High-End Salary, \$136,930
- Jobs in 2019: 295,800
- Job Projections for 2029: 325,800 (increase of 10%)

Algebra Concepts

- Make, use, and interpret graphs of proportional relationships.

Is this a good career for me?

Manufacturing engineers:

- Analyze operational data to evaluate operations, processes or products.
- Resolve operational performance problems.
- Develop technical methods or processes.
- Implement design or process improvements.
- Determine operational methods.

LESSON 2.9

Use Theorems About Angles

CAREER SPOTLIGHT: Carpenter

Occupation Description

Carpenters construct, repair, and install building frameworks and structures made from wood and other materials.

Carpenters have many different tasks. Some carpenters insulate office buildings; others install drywall or kitchen cabinets in homes. Still others focus on production or commercial work to help construct tall buildings or bridges. These carpenters also erect shoring and scaffolding for buildings.

Education

Carpenters typically need a high school diploma and learn on the job or through apprenticeships. Certain high school courses, such as mathematics and mechanical drawing, may be useful. Some vocational-technical schools offer associate's degrees in carpentry. The programs vary in length and teach basics and specialties in carpentry.

Potential Employers

The largest employers of carpenters are as follows:

Self-employed workers	27%
Residential building construction	22%
Nonresidential building construction	13%
Building finishing contractors	12%
Foundation, structure, and building exterior contractors	10%

Watch a video about carpenters:
<https://cdn.careeronestop.org/OccVids/OccupationVideos/47-2031.00.mp4>



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Career Cluster

Architecture & Construction

Career Pathway

Construction

Career Outlook

- Salary Projections:
 Low-End Salary, \$30,170
 Median Salary, \$48,330
 High-End Salary, \$84,690
- Jobs in 2018: 1,006,500
- Job Projections for 2028: 1,086,600 (increase of 8%)

Geometry Concept

- Apply theorems about angles.

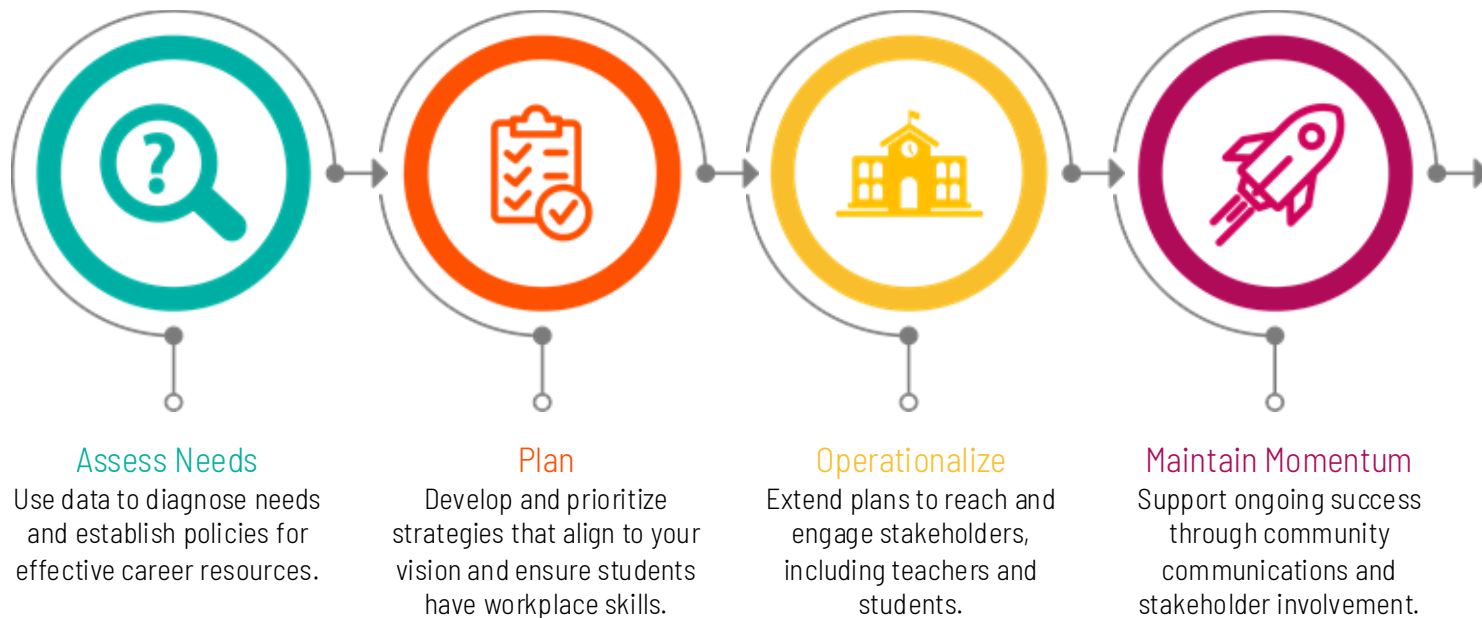
Is this a good career for me?

Carpenters:

- Follow blueprints and building plans to meet the needs of clients.
- Measure, cut, and shape wood, plastic, and other materials.
- Construct and install building frameworks, including walls, floors, and doorframes.
- Instruct and direct laborers and other construction helpers.
- Install structures and fixtures, such as windows and molding.
- Inspect and replace damaged framework or other structures and fixtures.

Operationalize

Program Alignment



Operationalize



Operationalize

Extend plans to reach and engage stakeholders, including teachers and students.

- Identify all areas to support career-connected learning.
- Engage stakeholders in launch plans.
- Enhance academic programs to support career-connected learning.
- Address professional learning opportunities.
- Plan frequent check-ins to support implementation.

Operationalize: Engage Students

Because connecting students to their interests and career paths **matters**.



P2C Career Explorer



CAREER EXPLORATION: Finding My Balance

LEVEL: 7 ESTIMATED TIME: 60 minutes

CAREER EXPLORATION AREAS

STEM

This lesson is intended to increase students' awareness and understanding of the various career pathways within the fields of science, technology, engineering, and mathematics. Each STEM lesson will incorporate learning objectives from one or more of the core career exploration areas: personal discovery, career evaluation, career awareness, and career preparation.

Career Evaluation: ROI Analysis

Find types of information that can be helpful in conducting ROI analyses.

Personal Discovery: Synthesis

Explore interests, values, and skills and put these together to find the best careers that match the individual.

CORE SUBJECTS

English Language Arts

Assess and use multiple sources of information from different formats (pictures, words, etc.) to answer a question or solve a problem.

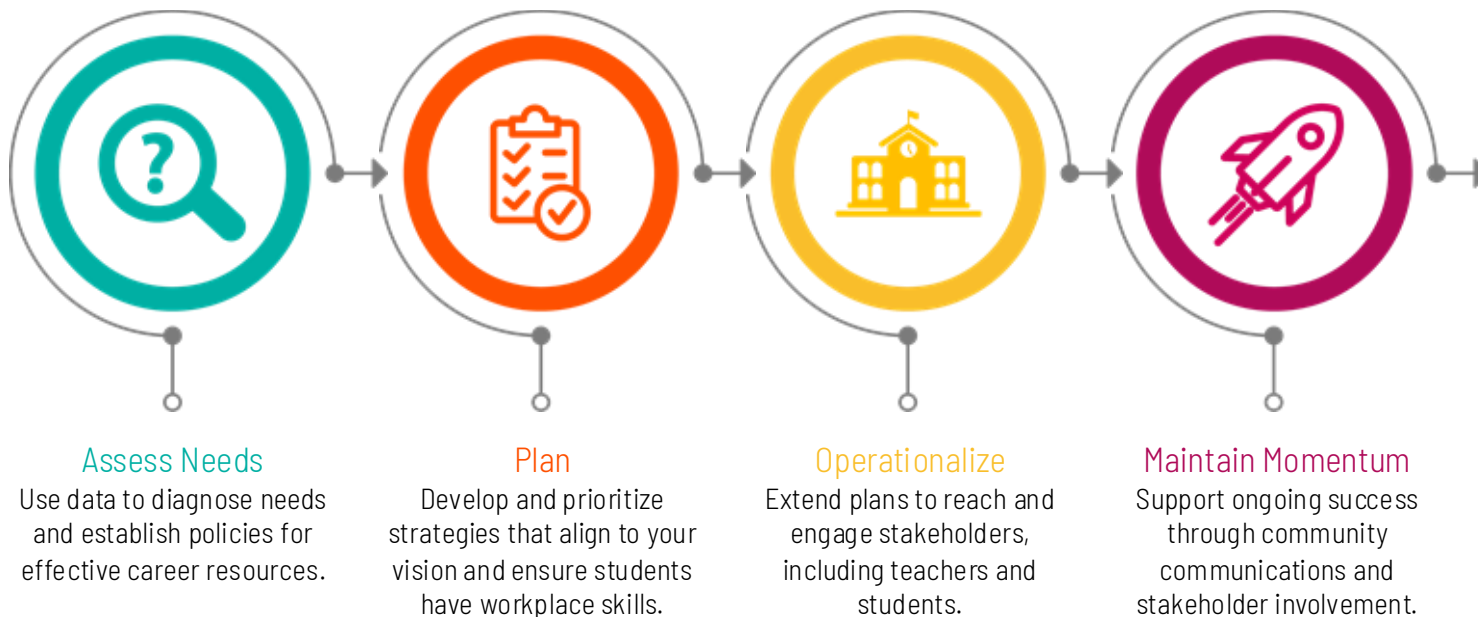
Math

Use units as a way to understand problems and solutions to multi-step problems.

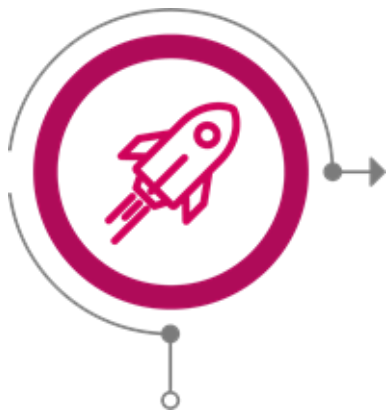
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Maintain Momentum

Program Alignment



Maintain Momentum



Maintain Momentum

Support ongoing success through community communications and stakeholder involvement.

- Identify all areas to support career-connected learning
- Engage stakeholders in launch plans
- Enhance academic programs to support career-connected learning
- Address professional learning opportunities
- Plan frequent check-ins to support implementation

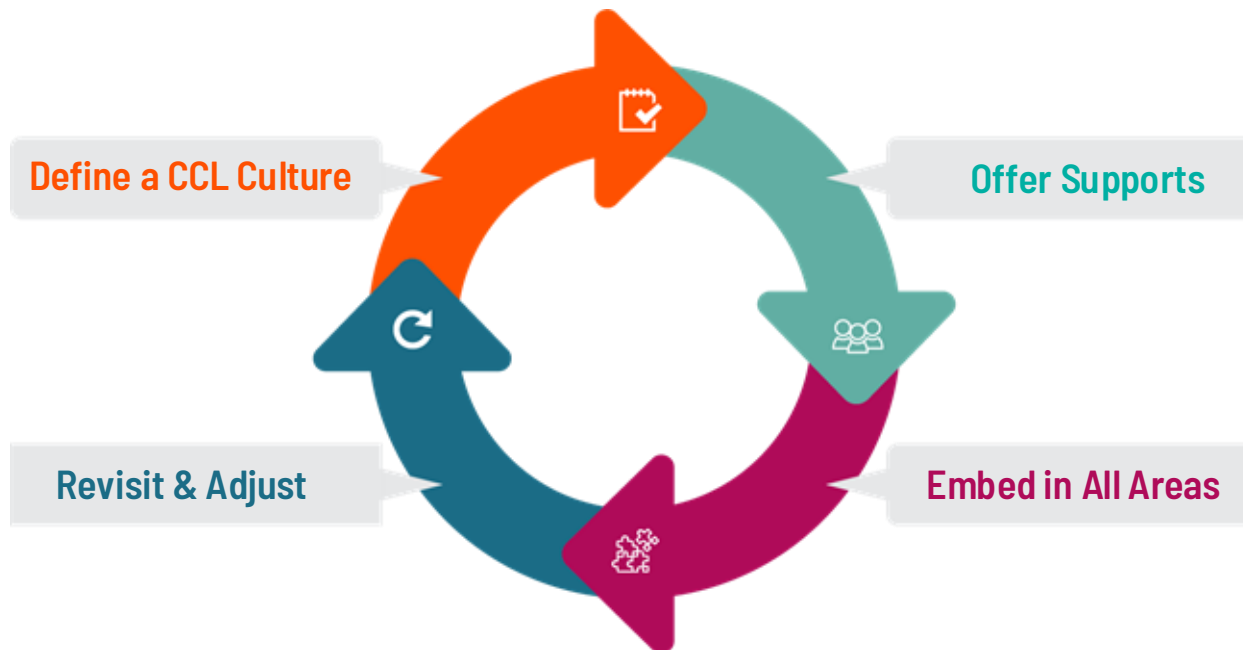
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Effective education is not adding a program or a set of programs to a school. Rather, it is a **transformation of the culture and life** of the school.

– David Berkowitz

”

Establish a Culture of Career-Connected Learning



Service Spotlight

P2C Professional Development

“

The single greatest effect on student achievement is not race, it is not poverty - it is the effectiveness of the teacher.

– Harry Wong

”

P2C Professional Development



Effective teaching involves a deep understanding of the knowledge and skills students will require to be successful in the workplace someday. In this fast-changing world of work, educators need to be equipped with the resources to navigate this constant change and meet their students' needs.

Our team of seasoned professionals are equipped to provide prescriptive, tailored learning experiences to meet the needs of our participants.

P2C Professional Development

Professional Development at P2C is not a “one-and-done” training. Our professional development includes on-going support via follow-up virtual sessions, collaborative online learning communities, and access to online courses reflecting the latest research within the industry.

At P2C, we believe:

- Teachers are the cornerstone to student achievement
- Effective educator resources are rooted in best practices



P2C Professional Development

At P2C, our goal is to:

- Advance a culture of career readiness by connecting careers to all academic coursework
- Establish trusted partnerships to support all P2C educators with diverse and collaborative learning options
- Foster a culture-shift in schools by making career readiness important to everyone



In the words of P2C teachers...

“

Never in my 20 years of educational experience have my students ever experienced such in-depth career focused math problems.

”

In the words of P2C teachers...

“

P2C curriculum is extremely unique. It lifts the veil and perfectly focuses the spotlight on the type of math used in any chosen profession.

”

In the words of P2C teachers...

“

With the P2C lessons, I saw more of my students take risks and engage in conversation during the lessons, which helped our class build more community and self-confidence.

”

In the words of P2C teachers...

“

Many of the teachers that I work with absolutely love the way their students glow and marvel at grasping concepts that they otherwise...may not have understood.

”



Shelly Robinson

Customer Success Project Lead (NM)

THANK YOU!



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505.225.2911



THANK YOU!

Want to continue the conversation?



Dr. Joseph Goins, CEO



joseph.goins@p2c.org



865.414.0033

WHO is P2C?



We're P2C!

We believe when education
becomes relevant, learners can
fully engage.





CAREER-CONNECTED LEARNING SUITE



MATH

A rigorous Math curriculum that engages learners by connecting mathematical concepts to real-world careers.



CAREER EXPLORER

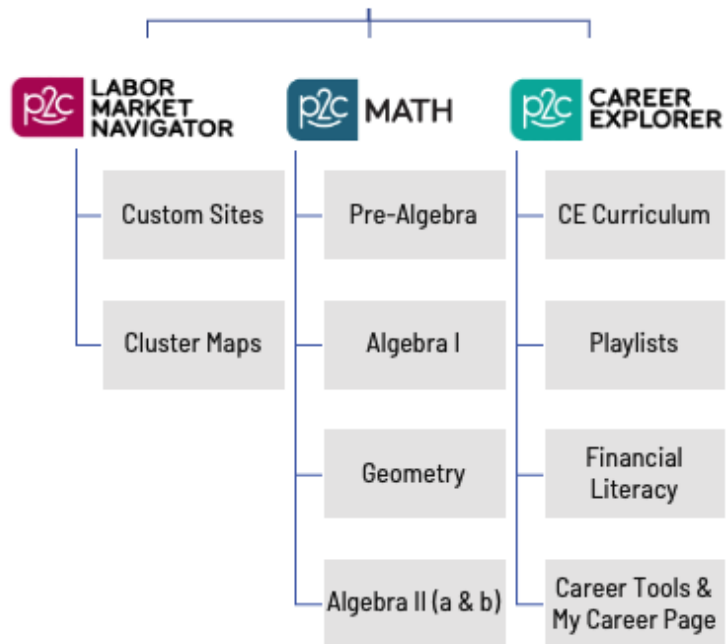
Career exploration tools and curriculum providing learners with the essential resources to make informed career decisions.



LABOR MARKET NAVIGATOR

A customized platform essential to those looking to access local labor market data and trends that can enable effective and informed decision-making.

CAREER-CONNECTED LEARNING SUITE



PROFESSIONAL DEVELOPMENT





PATHWAY **2** CAREERS