



PATHWAYS to the **FUTURE**

Presented By



WEST VIRGINIA DIVISION OF
REHABILITATION SERVICES



CONNECTING

Work Exploration to the College
and Career Readiness Standards



Using This Document

This resource is designed to connect onsite work exploration activities with the West Virginia College and Career Readiness Standards (WVCCR). While each activity is linked to a specific standard or set of standards this is not an exhaustive list. There are likely other standards that an activity can be linked across all subject areas. Also consider, while many standards build in complexity as students progress through grade levels, the standards are written very similarly, therefore the same connection can be made in several grade levels. While many standards can be linked to work experiences, not all can. Having high quality instruction on the job site and in the classroom will be critical for student success.

This document is meant to be a starting point, as these activities are only a small sample of the possibilities that exist when a high-quality work exploration program is combined with effective classroom instruction. These sample activities can be easily implemented, but also modified depending on availability within individual communities. It is our hope that educators and business partners will develop an increasing array of instructional techniques that open avenues of learning and employment for their students. Consider available resources in your school and community and tailor these lessons accordingly. We are only limited by our imaginations.

It is important that the Classroom instruction should include deliberate instruction related to the work experience. Instruction and examples given during direct classroom instruction

should bring the focus of the skill being taught to the onsite project.

Can the Student: These are academic and job site prerequisite skills that provide a base of knowledge for successful completion of the project. If any of these are lacking direct instruction, at the job site or in the classroom, will be beneficial.

Questions to Ask: These are discussion points to ensure connection is made between the standard and jobsite experience. While there may be other directions each project can take, ensuring that students consider these points will ensure the standard is covered. These should be addressed both on the jobsite and in the classroom.

Expanding the Project: Should the instructor feel that the student has sufficient mastery of the standard and jobsite task, a more complex task can be undertaken to deepen learning. This is a way to differentiate the project to the skills of each student.

CTE Connections: (in green)

These standards can be accessed using the online link. Job site activities can be linked to standards and courses within CTE programs.

CTE Connections can be accessed at <https://bit.ly/PathwaysWV-CTE> or scan the QR Code below.



General Maintenance

SAMPLE TASK

Students will assemble and conduct maintenance on the Christmas ensemble. They will need to determine the number of replacement lights and conduct repairs accordingly.



CTE Connections



CTE Connections can be accessed at <https://bit.ly/PathwaysWV-CTE> or scan the QR Code.

CONNECTION TO THE STANDARDS

M.A1.HS.3

“Choose a level of accuracy appropriate to limitations on measurements when reporting quantities.”

Can the student...

Round numbers to appropriate levels of accuracy?

Questions to Ask

- How many lights are needed?
- Why purchase in bulk?
- What is the unit rate?

Expanding the Project

- Allow students to collect inventory of needed supplies.
- Allow students to assist park staff in purchasing lights.
- Allow students to gather quotes for prices.

Environmental Maintenance

SAMPLE TASK

Students will develop solutions for environmental problems such as garbage collection or erosion.



CTE Connections



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CONNECTION TO THE STANDARDS

S.9.ESS.18

“Evaluate or refine a technological solution that reduces the impact of human activities on natural systems.”

Questions to Ask

- What is the source of erosion in this area?
- What are natural ways that water can be redirected?
- What is an efficient way to ensure trash is disposed of properly?

Expanding the Project

- Allow students to plan for the construction of trails.
- Conduct research from existing trail systems.
- Students construct trails in an environmentally friendly manner.
- Allow students to develop methods for litter disposal.
- Discuss the effects of litter and pollution on the environment.

Food Service

SAMPLE TASK

Assemble a student led crew to complete prep work, cooking, or cleaning.



CTE Connections



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CONNECTION TO THE STANDARDS

ELA.9.33

“Present information, findings, and supporting evidence clearly, concisely, and logically, such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.”

Questions to Ask

- How can you effectively explain directions?
- What is your plan for completing this task?
- What type of resources or people do you need for the job?

Expanding the Project

- Allow students to take leadership roles and teach skills to peers.
- Allow student leaders to collaborate with restaurant staff regarding operations and management strategies.

Job Preparation

SAMPLE TASK

Prepare supplies needed for your shift.



CTE Connections



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CONNECTION TO THE STANDARDS

M.A1HS.45

Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions. **Instructional Note:** Extend work on linear and exponential equations in the Relationships between Quantities and Reasoning with Equations unit to quadratic equations.

Can the student...

Identify important quantities in a practical situation.

Questions to Ask

- What supplies are needed to complete this job?
- Can you determine how many supplies you need before doing the job?

Expanding the Project

Can you develop a simple equation using this information?

Building Construction

SAMPLE TASK

Construct a building.



CTE Connections



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CONNECTION TO THE STANDARDS

M.A1HS.53

Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph. **Instructional Note: Focus on quadratic functions; compare with linear and exponential functions studied in the Unit on Linear and Exponential Relationships.**

Can the student...

- Determine the slope (rate of change) of a line from a graph, table, or equation
- Interpret the meaning of slope in the context of a real-world problem

Questions to Ask

What is the slope of the roof and why does it matter?

Expanding the Project

Design a blueprint and taking into account geometric features of the structure.

On the Job Reading Skills

SAMPLE TASK

Read a job specific set of instructions and perform the task accurately.

Example: Assemble a piece of office furniture from an instruction manual.



CTE Connections



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CONNECTION TO THE STANDARDS

ELA.9.10, ELA 10.10, ELA 11.10
Determine the meaning of words and phrases as they are used in an informational text, including figurative, connotative, and technical meanings; analyze the cumulative impact of specific word choices on meaning and tone.

Can the student...

- Analyze the impact of specific word choice on meaning
- Understand the following terms: denotation, connotation, prefix, suffix, and root word.

Questions to Ask

- What tools are needed for this task?
- What is the estimated amount of time to complete it?

Expanding the Project

Create your own step by step directions for a daily task.

Developing & Explaining Plans

SAMPLE TASK

Develop a plan including a materials list, procedures, and timeframe for mulching a playground or similar task. Also, justify by speaking and/or in writing the plan.



CTE Connections



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CONNECTION TO THE STANDARDS

M.A1.HS.1

Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.

Also: ELA.9.21, ELA 9.23, ELA 9.25, ELA 9.26, ELA 9.30

Can the student...

- Calculate unit rates in number and word problems?
- Solve unit rate problems?
- Interpret units consistently in formulae?
- Develop organizational strategies and ideas?

Questions to Ask

- What is needed in terms of square footage and manpower?
- Explain the rationale of your plan.

Expanding the Project

Present and defend a proposal to business staff.

Complete a Construction Project

SAMPLE TASK

Construct shooting stands and platforms for use at an outdoor recreational facility.



CTE Connections



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CONNECTION TO THE STANDARDS

M.A1.HS.3

Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

Also: M.A1.HS.1 ELA 9.30

Can the student...

- Measure accurately to the 1/8 of an inch?
- Specify units of measure?
- Round numbers to appropriate levels of accuracy

Questions to Ask

- How much wood is required to complete the project?
- What type of wood is required?

Expanding the Project

- Students will develop an order.
- Students will call and enquire with a vendor about supplies.

Present a Proposal Using Technology

SAMPLE TASK

Develop a project proposal and present to peers and/or jobsite staff.



CTE Connections



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CONNECTION TO THE STANDARDS

ELA 9.30-35

ELA 10.30-35

ELA 11.30-35

ELA 12. 30-35

Initiate and effectively participate in a range of collaborative discussion with diverse partners.....

Integrate multiple sources of information presented in diverse media or formats.

Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.

Make strategic use of digital media in presentations to enhance understanding

Can the student...

Collaborate with classmates
Establish rules for discussions

Questions to Ask

How can you present so the group understands it?

Expanding the Project

Have students organize own work crew including team leaders, routines, staff meetings, and assigned duties

Document Jobsite Activities

SAMPLE TASK

Maintain a record of tasks, performance, and incidents.



CTE Connections



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CONNECTION TO THE STANDARDS

ELA 9.19, 22, 23, 25, 29

ELA 10.19, 22, 23, 25, 29

ELA 11.19, 22, 23, 25, 29

ELA 12.19, 22, 23, 25, 29

Can the student...

Compose a piece of writing where development, organization, and style are appropriate to task.

Take to Complete

Develop an appropriately written work log.

Expanding the Project

- Teach potential legal concerns while at work.
- Teach specific company policies and procedures related to documentation.

Professional Writing & Self Advocacy

SAMPLE TASK

Write a formal complaint using the proper format such as letter, email, or grievance procedure.



CTE Connections



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CONNECTION TO THE STANDARDS

ELA 9.19, 20, 22, 23, 25, 29

ELA 10.19, 20, 22, 23, 25, 29

ELA 11.19, 20, 22, 23, 25, 29

ELA 12.19, 20, 22, 23, 25, 29

Can the student...

Compose a piece of writing where development, organization, and style are appropriate to task.

Questions to Ask

- How do you write appropriately for job?
- How do you present your grievance in a professional manner?

Expanding the Project

- Teach how to properly use email.
- Teach formatting for business letters.
- Understand grammar, style, and punctuation for professional writing.
- Develop a plan for public relations to prevent employee conflict.

Conversations with Customers

SAMPLE TASK

Interact appropriately with customers, hotel guests, and clients.



CTE Connections



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CONNECTION TO THE STANDARDS

ELA.9.35

Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.

Can the student...

- Analyze the audience and adapt speech as necessary?
- Distinguish between formal and informal language (slang, idioms, dialect, texting, and puns)?

Questions to Ask

- How do you interact with a customer?
- How do you interact with a customer who is angry with the service they received?
- How does your behavior reflect on the reputation of the company?

Expanding the Project

- Allow students to perform a role play activity.
- Develop a customer relations procedure.

Evaluation of Real World Problems Utilizing Science

SAMPLE TASK

Develop a plan to use resources, personnel, and time based on weather forecasts or other environmental data.



CTE Connections



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CONNECTION TO THE STANDARDS

S.HS.ENV.26

Students will research and describe how communities have restored or protected ecosystems: remediation, mitigation, rehabilitation, reclamation, preservation.

Can the student...

- Make basic prediction and analysis?
- Understand formal and informal English in context?

Questions to Ask

- What is considered a serious environmental impact?
- How will business operations be affected?
- What steps can we take to ensure environmental damage is minimized?
- What resources will be needed and how will this affect regular business?

Expanding the Project

- Develop an emergency action plan regarding environmental disasters and weather related instances.

Geography

SAMPLE TASK

Develop a plan for flood management.



CTE Connections



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CONNECTION TO THE STANDARDS

S.HS.ENV.19

Students will create models to show surface and groundwater flows in a local drainage and explain how surface and ground water are related.

Can the student...

- Explain basic weather patterns?
- Understand normal business operations?

Questions to Ask

- Where is flooding likely to take place?
- What will be the environmental effects of a flood?
- What will be the effects of flooding on normal business?

Expanding the Project

- Develop an emergency action plan regarding environmental disasters and weather related instances.

Advertisement

SAMPLE TASK

Develop an advertisement plan for a local business.



CTE Connections



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CONNECTION TO THE STANDARDS

ELA.9.35

Make strategic use of digital media in presentations to enhance understanding of findings, reasoning, and evidence, and to add interest.

Can the student...

- Identify and develop a theme in writing?
- Explain the mission of the business?

Questions to Ask

- Who are we trying to communicate to?
- What impact can this business have on the local community?
- What is the key message of the business?
- What type of media would reach the target audience?

Expanding the Project

Work with another agency to develop an advertisement for public release.