Engaging High School Students in Academic Work

A 10 Session Professional Development Series

EVERYONE



The first step in leading students to learn the academic content for which both students and teachers are held accountable is to ENGAGE them in the learning process.

This is a real challenge, particularly for adolescents who have not experienced academic success in the past. Many students come to us already disengaged from school. They may have had life experiences that have interfered with attendance or academic effort. They may not have experienced instruction that met their needs in prior schools.

This series is designed to engage teachers in collaborative learning and reflection about the process of engaging students in the rigorous academic work required in high school. It focuses teachers' attention on what motivates students and how they can create classroom environments and learning experiences that will draw students into the learning process so that they will exert the effort required to be successful learners. The series involves interactive teacher experiences and practical tools organized around these themes:

- Building Relationships that Motivate Students
- Motivating Students for Academic Work
- Assessment Strategies that Motivate Students (Parts 1 and 2)
- Building a Community of Learners: Strategies for Effective Cooperative Learning and Small Group Work
- Connecting the Work to Students' Future Work Lives: Creating Assignments with Student Products for Real Audiences
- Reflecting on Assessment Strategies
- Engaging Students in Critical Reading Skills in the Content Areas
- Using Project-Based Learning to Deepen Learning and Engagement
- Reflecting on Student Work, Student Progress, and Next Steps for Continuous Improvement

It also includes an optional "Passion Profiles" icebreaker session.

A Facilitator Guide and associated materials for conducting the PD sessions can be found on the website: <u>http://engage.every1graduates.org</u>

The website contains all materials in editable form so they can be adapted for local contexts.

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What Motivates Students to Do Academic Work?

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Guiding Questions

- How do we motivate students to engage in rigorous academic work?
- How can we adapt our classroom instructional practices to tap into students' intrinsic motivation?
- How can we do this as a collaborative community?

What motivates your students?



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What motivates high school teachers?

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 $V_{4} A_{1}$

Brainstorming Exercise

As a group using the large Venn diagram, brainstorm what motivates teachers to do their work, what motivates students to learn, and what, if any, overlap exists between these?



Rules for Brainstorming

One Conversation at a Time	Encourage Wild Ideas
Go for Quantity	Be Visual
Headline!	Stay on Topic
Build on the Ideas of Others	Defer Judgment – NO Blocking

Brainstorming Debrief

- What are some themes that emerge around motivation?
- How do themes in the overlap look different for teachers and students?





Hunger for Relationships

Listen to some students from a recent study of student perspectives on positive relationships with teachers ...



I feel like if anything ever happens, I can go to see him outside of class, and I know he'll always take a minute from what he's doing and talk to me in private about whatever it is.

> If I ask her a question she'll really make sure I understand it before letting me go and trying to do it on my own and that's just really nice because some teachers will be like, "Okay do you have it now?" or "Okay here's the answer go see if you can do it" but she'll be like, "Okay do you actually know or do you have any more questions?"

> > He always has something—some good advice to give you about whatever problems you have. And if he doesn't then he'll point you to someone who does.

(from Yu et al., "She Calls Me by My Last Name": Exploring Adolescent Perceptions of Positive Teacher-Student Relationships, Journal of Adolescent Research, 2018, 33, 332-362)

A Vision of Belonging

VIDEO about Restorative Circles

(Shortened version of https://www.youtube.com/watch?v=RdKhcQrLD1w)

Small Group Discussion Questions

What are your reactions to this classroom experience? Have you ever experienced this in your own classroom? What do you see as the pros and cons of using this approach? What is your favorite way of building classroom community?

Ideas/Resources for Relationship Building (see binder and website)

- First-day activities that help you to get to know students and students to get to know each other
- The Power of Personal Relationships article (link on website)
- Power of the Circle article (link on website)

Teacher Reflection

- What will you do in the first week of classes that will create a community in which students feel safe and engaged?
- What will you do to build trust and show caring and respect?
- What will you do to sustain this community?

What Motivates Students to Do Academic Work?

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Icebreaker – What is your passion?



Passion Profiles



Passion 1: The Child

Passion 2: The Curriculum

Passion 3: Content Knowledge

Passion 4: Teaching Strategies and Techniques Passion 5: The Relationship Between Beliefs and Professional Practice

Passion 6: The Intersection Between Your Personal and Professional Identities

Passion 7: Advocating Equity and Social Justice

Passion 8: Context Matters

Passion Profiles



1. Determine your passion

2. Meet passion team @ station

3. Share highlights with large group

Motivated by Mastery:

Helping Students See and Celebrate Their Progress

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Session Goals

- How do we focus students on mastery goals?
- How can we help students track their progress?
- How can we celebrate success?

Self-goals

MASTERY

Students aim to develop their competences, and consider ability to be something that can be developed by increasing effort

PERFORMANCE

Students aim to demonstrate their competences particularly by outperforming peers considering ability to be fixed

SOCIAL

3

Students are most concerned about how they interact with, and relate to others in the class

> Visible Learning For Teachers Maximizing Impact on Learning John Hattie

When people are only faced with their failures, they tend to want to give up. **They need help to see their own progress, so that they don't only see how bad they are doing.** They need to see the fun in it, and to see some reward in completing the task.

> Iona, teenager consultant for Fires in the Mind: What Kids Can Tell Us About Motivation and Mastery

The Challenge

Many student have not experienced success in the past and seem to have given up



Additional Challenges

- How do we link mastery goals to specific content standards in a way that motivates students?
- How do we find time to help students see the big picture and systematically monitor and reflect on how they are doing at meeting goals?

Strategies for Ensuring that Students Can See Where They are Going and Track Their Progress Along the Way



Examples of Giving Students a Roadmap





What about a roadmap with specific learning targets and a way to track progress?
American Government Bill of Rights Unit Learning Targets Roadmap

American Government Bill of Rights Learning Targets Roadmap

> (Copy in Binder)

		:	well can I do t 1= Not at all 2= A little 3= Very well	his?	Evidence that I can do this	
	Learning Target	Unit Start	Unit Midpoint	Unit End		Goal Met?
Knowledge/Reasoning	 I can explain how the Bill of Rights is relevant to me personally and to those I care about. 					
Targets	I can summarize the key debates over the ratification of the Constitution.					
"What do I need to know?"	 I can cite examples of limited government in the Bill of Rights 					
"What can I do with what I know?"	 I can explain how the first nine amendments protect individual rights. 					
	 I can explain how the 10th Amendment addressed limited government and federalism 					
	6. I can compare the arguments of Federalists and Anti- Federalists on adding individual freedoms to the Constitution					
	 I can draw connections between amendments in the Bill of Rights and arguments over the principle of limited government. 					
Skill/Product Targets	 I can participate actively in a class debate about the 2nd Amendment 					
"What can I demonstrate?"	I can engage in a "silent (written) discussion" about a Bill I of Rights issue with a small group of my classmates					
"What can I produce to show my learning?"	 I can write an essay setting forth an argument about guns in contemporary society in the context of the 2nd Amendment 					
	11. I can demonstrate my knowledge about the Bill of Rights on the unit test.					

Adapted from Myron Dueck, Grading Smarter Not Harder, pp. 79-80. Dueck credits his colleague Karl Koehler from Humble, TX

How viable is this Learning Targets Roadmap tool for helping students to:

- Get the big picture of "where are we going?"
- See what the learning targets are (and how they are linked to a bigger purpose)
- Monitor their progress in achieving goals



Analysis Challenge

- Get in groups of 4 to 6 with at least one other colleague from your department
- Spend a couple of minutes looking over the Bill of Rights Unit "Learning Targets Roadmap" tool (adapted from a similar example in Myron Dueck, *Grading Smarter, Not Harder*)
- Discuss the following questions as a group (from next slide)

Questions for Department Group Discussion

What do you think about how this tool communicates learning targets to students? Helps them track their progress? What strengths and weaknesses do you see with it?

Have you ever tried anything similar? How did it work?

How do you think something like this could be adapted to your subject matter?



Taking Next Steps for Using These Ideas

- How can I help students understand the big picture of where we are going and how it is relevant to their lives?
- How can I help students track progress in meeting specific learning targets that are relevant to students' lives?
- How do I help students take the lesson of crafting goals and tracking progress and apply it to their own personal goals?
- How can I plan to check in with my colleagues to discuss how this is going in our classrooms and what next steps we can take?

Unit Learning Targets Roadmap

Overarching learning goal that addresses current and future relevance....

Hard copy in binder

Editable Word version available on website

	Evidence that I can do	his?	well can I do t			
	this		1= Not at all	:		
			2= A little			
	┥────┤		3= Very well			
Goal Met?		Unit End	Unit Midpoint	Unit Start	Learning Target	
					1.	
						Knowledge/Reasoning
					2.	Targets
					3.	"What do I need to know?"
						"What can I do with what I
					4.	know?"
					5.	
					6.	
					8.	Skill/Product Targets
					9.	SkillyProduce Targets
						"What can I demonstrate?"
					10.	"What can I produce to show
					11.	ing icaning:
					10.	

Adapted from Myron Dueck, Grading Smarter Not Harder, pp. 79-80. Dueck credits his colleague Karl Koehler from Humble, TX

Additional Resources

- It Starts with a Spark
- Practicing Toward Mastery

From firesinthemind.org

Teacher Reflection and Planning

- How could I adapt the Learning Targets Roadmap tool for my subject area?
- If this particular tool doesn't seem relevant or usable, in what other ways can I help students see the big picture and their progress in mastering learning goals?
- How can I plan to check in with my colleagues to discuss how this is going in our classrooms and what next steps we can take?

Alternative Reflection Strategy To Use If Helpful:

Use the tool to map out and reflect on your own learning today.

		How	well can I do t	his?	Evidence that I can do	
			1= Not at all		this	
			2= A little			
			3= Very well			
	Learning Target	Unit	Unit	Unit		Goal
		Start	Midpoint	End		Met?
	1.					
Knowledge/Reasoning						
Targets	2.					
_	-					
"What do I need to know?"	3.	 				
"What can I do with what I know?"	4.					
KNOW?						
	5.					
	6.					
	7.					
	8.					
Skill/Product Targets	a .					
Skill/Flouder Targets	9.	 				
"What can I demonstrate?"						
"What can I produce to show	10.					
my learning?"		 				┝┝╞╡─
	11.					

Unit Learning Targets Roadmap

Overarching learning goal that addresses current and future relevance

Adapted from Myron Dueck, Grading Smarter Not Harder, pp. 79-80. Dueck credits his colleague Karl Koehler from Humble, TX

Assessment Strategies that Motivate Students

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Focus Questions

- What are our goals for giving grades and how do grades influence future student performance?
- How might we design grading scales that support student motivation?



Poll Everywhere

What are our goals for giving grades?

Start the presentation to activate live content

If you see this message in presentation mode, install the add-in or get help at PollEv.com/app



Grading Policy Exercise

Scenario – A teacher has unfortunately taken ill and had to take an unexpected leave of absence. You have been given that teacher's gradebook and asked to assign grades for the semester.

GRADES
С
С
Missing Assignment
D
С
В
Missing Assignment
Missing Assignment
В
А

Calculate the final grade for this student who received the following 10 grades during first semester.

What's Your Grade?

Share with your table partners and discuss any differences in grading decisions noticed.

How many tables had complete agreement?

Our next activities will explore some of the reasons behind divergent views.



Meaningful Grading Modified Jigsaw

Informally group yourselves in 3's or 4's Identify members as A - B - C

A's read: Practice

B's read: Problems with Percentage Grades

C's read: Missing Assignments – The Distortion of Zero



"Zeroing" in on the Assessment Issues Large Group Discussion

- What did you see about the impact of specific grading scales and weighting policies?
- Should improvement over time be taken into account in grading (earlier, low grades thrown out?)
- How should missing/late assignments be handled in grading?

The Great Grading Debate

Agree – Disagree Directions

- Everyone stand up!
- There are three posters along a line in the room AGREE, DISAGREE, and NOT SURE/NEUTRAL.
- I will post a statement and read it aloud. When I do so, silently move to the poster that reflects your opinion on the statement (Agree, Disagree, Not Sure/Neutral)
- Once you are there, either independently or with others around you, craft persuasive arguments for your position be prepared to share out!
- If your opinion changes based on what someone else says move!

Missing assignments should receive a 0 on a 100 point scale.

Teachers should take account of improvement over time in assigning the final grade (by dropping or giving less weight to earlier low grades).

There should be few if any opportunities to redo assessments or tests for a higher grade.

Averaging grades on a 0 to 4 point (F to A) grading scale is more fair than using a straight 100 point scale.

How the 100 Point Scale and the 5 Point Scale Lead to Different Final Grades

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Grade (100 pt)	0	93	93	93	93	93	0	0	56	F
Grade (5 pt)	0	4	4	4	4	4	0	0	2.4	С
Weight	10%	10%	10%	10%	10%	20%	20%	10%		



Self-Reflection

- Based on the conversation and debate, what new thoughts do you have about grading? Which of your ideas about assessment practices have been confirmed, challenged or changed?
- Given our conversation, what might you do differently this school year?

Assessment that Motivates Students

Part 2

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The Big Question

How can grading systems help motivate students to exert the effort needed to grow in mastery of course learning objectives?

How does a grading system address these critical questions?

"Students should be able to answer the following three critical questions during any learning phase:

- 1. Where am I going?
- 2. Where am I now?
- 3. How can I close the gap?"

Rick Stiggins, quoted in Dueck, 2014, p. 91

Where am I going?

American Government Bill of Rights Unit Learning Targets Roadmap

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inderstanding the bill	of Rights is crucial for participating as an engaged U.S. c				Evidence that I can do	ciety.
		How well can I do this? 1= Not at all 2= A little			Evidence that I can do this	
					unis	
			3= Very well			
	Learning Target	Unit		Unit		Goal
	Learning ranger	Start		End		
						Met?
	 I can explain how the Bill of Rights is relevant to me 					
Knowledge/Reasoning	personally and to those I care about.					
Targets	2. I can summarize the key debates over the ratification of the					
	Constitution					
"What do I need to know?"	3. I can cite examples of limited government in the Bill of					
	Rights					
"What can I do with what I	4. I can explain how the first nine amendments protect					
know?"						
	individual rights.					
	5. I can explain how the 10 th Amendment addressed limited					
	government and federalism					
	C. I					
	6. I can compare the arguments of Federalists and Anti-					
	Federalists on adding individual freedoms to the					_
	Constitution					
	7. I can draw connections between amendments in the Bill of					
	Rights and arguments over the principle of limited					
	government.					
	8. I can participate actively in a class debate about the 2 nd					
Skill/Product Targets	Amendment					
	9. I can engage in a "silent (written) discussion" about a Bill I of					
"What can I demonstrate?"	Rights issue with a small group of my classmates					
"What can I produce to show	10. I can write an essay setting forth an argument about guns in					
my learning?"	contemporary society in the context of the 2 nd Amendment					
	11. I can demonstrate my knowledge about the Bill of Rights on					
	the unit test.					
	1					

s an engaged U.S. citizen and seeking greater justice in our society. How well can loo this? I so very well Unit Unit Unit Unit Unit Goal Unit Unit Unit Unit Goal

Called a "Unit Plan" in

Grading Smarter Not Harder

Learning Target Roadmap

Adapted from Myron Dueck, Grading Smarter Not Harder, pp. 79-80. Dueck credits his colleague Karl Koehler from Humble, TX

Where am I now?

- Use frequent formative assessments
- Give concrete feedback on how to improve and grow
- Consider not giving formal grades for formative assessments

How do I close the gap?



Table Discussion of "Retesting"

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Using 4 A's Text Protocol in "Silent Discussion" Format
Reading "Retesting" Excerpt

- Get into groups of no more than 3 or 4
- Read the Retesting excerpt from *Grading Smarter Not Harder*
- Review the 4 A's Discussion Protocol



After Reading "Retesting" excerpt ...

- Follow the protocol with a SILENT DISCUSSION
- Each person writes for 2 minutes about any of the 4 A's
- Each person passes paper to colleague on left, and responds to what has been written before
- Continue until you get your original paper back
- You can choose which comments to respond to (not enough time to respond to everything!)



4 A's Text Protocol

- What **Assumptions** does the author of the text hold?
- What do you Agree with in the text?
- What do you want to **Argue** with in the text?
- What parts of the text do you want to Aspire to?

Quick Group Poll on "Retesting"

I do this already

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I may consider trying it

I'm back with Myron Dueck in 1998 – No Way!

Four Corners Activity

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My Own HS Experience

- 1 Did most homework and succeeded
- 2 Did most homework and did not do as well as I wanted
- 3 Blew off my homework but still succeeded
- 4 Blew off my homework and did not do well



Feel free to mix up your groups so you get to discuss with other people



- What did you notice about the size of the groups in the corners?
- Were you surprised by anything?



How do we provide opportunities to recover from failure?

- Do we force students to take an entire course over again?
- Or can we find ways to help students recover from failure before it has left a permanent negative impact on their postsecondary options?



Diamond's Story

Read the short excerpt from *Failing at School (*in your binder).

Questions for group discussion are on the handout.



Table Discussion

- How typical is Diamond's situation at our school?
- What are our strategies for responding to students in Diamond's position?
- How useful is this kind of failure experience in their lives? Is it the same kind of failure as things we've experienced (like failing to make a team or production cast, or get into a selective college)? Or is it qualitatively different?
- Is seeking to reduce our failure rate a good goal and if so, what steps could we take to help prevent course failure? In particular how can adapted grading practices help students to recover before they fail a course?

Teacher Self-Reflection

- In what ways will I organize my grading system to help motivate students to keep pursuing growth and mastery?
- What questions do I still have? With whom will I discuss this more?
- How can I work with colleagues in a collaborative community around the issue of assessment?

Time for Feedback

Thanks for completing the Evaluation Form!



Using Small Group Learning to Engage Students

EVERYONE GRADUATES



Today's Agenda

- Understand benefits of small group learning activities
- Experience a small group learning activity
- Debrief and discuss planning steps for implementing small group activities effectively
- Reflect on applying this experience to own classrooms

Small Group Learning Addresses Needs for ...



Autonomy

- Belonging/Connection
- Active Engagement

Small Group Learning Addresses CCSS Standards as Students Learn To:

- Build on others' ideas
- Express their ideas clearly and persuasively
- Work with peers to set rules for collegial discussions and decision-making
- Pose and respond to questions
- Clarify, verify, or challenge ideas and conclusions
- Summarize points of agreement and disagreement
- Qualify or justify their own views and understanding

Adapted from CCSS.ELA-Literacy.SL.9-10 Standards

Group Learning Activity

Six Hats (Glasses) Thinking

- Teachers experience the role of a student in an activity designed to help students:
 - Develop skills in analyzing informational text
 - Examine text from different perspectives
 - Express their ideas clearly and persuasively
 - Clarify, verify, or challenge ideas and conclusions
 - Qualify or justify their own views and understanding

Six Hats (Glasses) Thinking

In this activity the group will read an article related to genetic engineering and each group member will respond to the article from a different perspective:

- White glasses focused on information: What are the facts?
- Red glasses focused on feelings: How do I feel about this?
- Yellow glasses optimistic: What's the upside?
- Green glasses focused on growth and where an idea could go in the future
- Purple glasses focused on judgment and potential negative consequences
- Blue glasses focused on the thinking process: What are the implications?

Teachers engage in Six Glasses Activity using handouts and instructions



- Group members read article silently, highlighting words/phrases relevant to their color's perspective and making notes as needed.
- When all are ready, each person then reflects out loud to the group from the perspective of their glasses color, beginning with the white glasses and proceeding in order. (You can skip colors if you have a smaller group than 6.)
- We will follow rest of directions as a large group.

Debrief

- What do you see as the benefits of an activity like this for teaching your subject matter?
- What possible problems do you foresee in having students do this activity? What could be done to prevent or address these potential problems?
- In what ways could you adapt this activity to a future lesson?

Addressing Challenges of Small Group Learning Through Careful Planning and Preparation

Learning Targets

- What are the learning targets for students?
- How does a small group activity/learning task help students to reach those learning targets?
- How will students demonstrate their learning?

Structural Dimensions of Small Group Learning

- Size of group
- How students will be assigned to groups
- Degree of structure in the activity
- Length of time for the activity
- How students will be held accountable for their participation in group activity

Getting Students Ready for Collaborative Learning

- Model the strategy (and the roles within the group)
- Establish team among students working together
- Ensure students understand both individual and corporate responsibility for the project

For those new to implementing successful small group learning:

Start with very **small** groups (**pairs**) doing **highly structured** activities for a **short duration** of time.

GRADUALLY INCREASE

Group size

Length of small group time

Freedom and choice within activity structure



Gradually Increase Complexity

Teacher's Role During Small Group Learning

- Circulate and gauge how groups are functioning, redirect as necessary
- Implement the system or plan (prepared in advance) for how to support dysfunctional groups
- Pose questions to groups to deepen their thinking

Small Group Activity Ideas from Prior Sessions

- Venn Diagram Activity
- Small Group Analysis Challenge
- Silent Discussion Using 4 A's Protocol
- Text-Based Small Group Discussion with Guiding Questions
- Analysis Challenge (Critique of Learning Targets/Unit Plan Tool)

Other Small Group Activities Available

- Group writing activity (English, History/Government)
- Science article discussion activity
- Political cartoon analysis activity

Available on website

See handout for website access instructions

Drawing for Glasses Set

Submit your name if you are willing to try the activity (and share glasses sets with other teachers!)



Teacher Self-Reflection

- How might I incorporate small group learning into an upcoming lesson/class session? Is there any way I can adapt the Six Glasses activity for one of my upcoming lessons?
- What are the challenges I could encounter in using a small group lesson activity, and how could I plan ahead to address these?
- How can a small group learning experience make the content more engaging for students? Help to develop students' higher order thinking skills?
- When and with which colleague(s) will I plan to discuss these ideas more?

Additional Teacher Activities for Small Group Learning

To be used or substituted as needed

How Do Students Spend Time in Classroom?

Teachers graph how students spend time in their classrooms (see sheets with categories)


Small Group Discussion



In your small group, compare your graphs with each other.

How much variation is there across teachers?

What possible explanations do you see for the level of variation?

Teachers Share Experiences Using Small Group Activities in Classroom

Teacher volunteers (at least 3) form panel to address these questions before full group:

- What small group classroom activity have you tried out in the past month?
- What was the learning objective for students?
- How did the small group activity work for engaging student interest and effort?
- What evidence can you describe of student learning during the activity?
- Did anything surprise you?
- What challenges did you encounter, and how did you (or would you in future) address them?

Thanks for participating and for your feedback!



Connecting the Work to Students' Future Work Lives

Creating Assignments with Student Products for Real Audiences in English, Social Studies, and World Languages

EVERYONE





Image credit: John DeRosier, https://www.timesunion.com/opinion/slideshow/Cartoon-Gallery-John-DeRosier-s-View-7780.php

How can we create experiences for students that are relevant, engaging and more like the real world?

Agenda

- Silent conversation activity and debrief
- What are Authentic Assignments (and how often do we give them)?
- Giving students a framework for attacking authentic assignments – 4 Ds of Problem Solving

Reading Excerpt from Ted McCain

- Read the excerpt from *Teaching for Tomorrow*
- Think about:
 - **ASSUMPTIONS** the author holds
 - Things you AGREE with
 - Things you want to **ARGUE** with
 - Things you want to **ASPIRE** to



Silent Conversation Steps

- 1. Use the large post-it sheets to write a reaction to the text (assumptions, something you agree with, something you want to argue with, something you want to aspire to)
- 2. Post your comments on the appropriate large sheet on the wall
- 3. Read the comments of others
- 4. Respond in writing to comments of others as you feel led



Large Group Debrief

What were some themes that emerged in the conversation?

Did interacting with others' opinions influence any of your original opinions?

Debrief on the Activity Strategy

- What did you like about the silent conversation activity? Anything you did not like?
- How do you think a silent conversation activity would work with students?
- What might you need to change/adapt to make this work in your classroom?
- How likely are you to try something similar (with a text or visual representation from your specific curriculum)?

Taking smaller steps before plunging into McCain-style real world scenarios...



Authentic, Real World Assignments Involve at Least One of the Following:

- Authentic problem a problem or situation that can and will occur in the real world
- Authentic task a task that people perform in the work world
- Authentic process a set of instructions and parameters that are similar to a real world or work experience
- Authentic audience a product or performance shared with a particular group of people (outside the classroom)

How Frequently Do Your Assignments Involve an ..

- Authentic problem
- Authentic task
- Authentic process
- Authentic audience



Use handout sheet to estimate

Examples of Authentic Assignments



How Can Assignments Resemble Real World Job Assignments?

Some Examples

Presentation to City Council (either PRO or CON) regarding expansion of acreage zoned for growing marijuana for medical use





Newspaper story with real world length and time constraints A children's book for a real audience – Can be used in almost any subject area



One Example Shared by a H.S. Teacher



Craft a children's book – to share with kindergarten and first-grade students at a nearby elementary school – that helps them to understand some sayings from *Poor Richard's Almanack*.

Bethany Whinnem (@Drama_Chick) http://talkswithteachers.com/authenticwriting Editing assignment for a literary magazine (fix a piece that is too long and has grammatical and organizational problems)



Authentic Assignments in History

Students can demonstrate history knowledge and skills through:

- Museum exhibit
- Podcast
- Children's story
- Historical travel brochure

- Planning a tour focused on a particular historical event/period
- Designing an art exhibit focused on a particular historical event
- Creating a model of a battle scene or everyday life in another historical period

Authentic Assignments in World Languages

Students can demonstrate language knowledge and skills through:

- Podcast about immigrant from country where language spoken
- Travel brochure featuring a planned tour of several cities in the country where language spoken
- Children's story
- Planning and conducting an evening event with dinner and program featuring food and music from country where language spoken

Other ideas for written, verbal, and artistic authentic assignments on handouts



A Real-World Task (History/World Language)

Your company has been hired to create a brochure describing a 7 day tour of at least 3 cities in a country where [World Language] is spoken. The tour should include visits of historical interest each day. The brochure should indicate realistic costs for air travel, ground transportation, lodging, and food.



But students need a framework for tackling such a nebulous, multi-step task Giving students a framework for problem solving is authentic learning that prepares them for the real world.





From Ted McCain, Teaching for Tomorrow

Define

• Overview

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- List of criteria or specifications for completing the task (required and optional)
- Criteria for evaluating the product

	Problem Definition	
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ate		
roject Title		
Overview		
Required Specifications		
Optional Specifications		
Evaluation Criteria		
Evaluation Criteria		
ignature		

Design

- Outline subtasks
- List of resources needed
- Specify learning needed

	Solution Design	
lame		_
ate		_
roject Title		_
Subtasks		
Resources Needed		
Learning Needed		
		Teaching for Tomorrow, p. 60

Do

- Implement the plan from Design phase
- Are we keeping up with the timeline outlined in the design phase?
- If difficulties with execution, what could we change about our design plan?



Project Timeline (To Monitor the "DO" Phase)

	Invoice	
ame		
ate		
roject Title		
tem	Maximum Points	Points Awarded
TOTAL	100	
TOTAL	100	
Project Manager Comments		
Customer (Teacher) Comments		

Debrief

- Both teacher and student evaluate the final product, based on specifications outlined in the define phase
- How well has the project met the criteria outlined in the define phase?



From Ted McCain, Teaching for Tomorrow

Other Frameworks for Tackling Complex Tasks?

Teachers share other frameworks they may already be using




See handouts for additional ideas for alternative assignments

Teacher Small Group Reflection and Share-Out

- What upcoming course content would be appropriate for an assignment that has a real audience or resembles a real-world work assignment or both?
 - What standards need to be assessed in such an assignment?
 - What alternative ways of assessing skills will students find relevant and engaging?
- What are the barriers to implementing this idea in my class? How can I overcome those barriers?
- How could I use the 4 D's of Problem Solving concepts and tools to provide scaffolding for students to attack an authentic task that requires them to work more independently?
- How will I know if my authentic assignment for students is successful?

Connecting the Work to Students' Future Work Lives

Creating Assignments with Student Products for Real Audiences in Science and CTE

EVERYONE





Image credit: John DeRosier, https://www.timesunion.com/opinion/slideshow/Cartoon-Gallery-John-DeRosier-s-View-7780.php

How can we create experiences for students that are relevant, engaging and more like the real world?

Agenda

- Silent conversation activity and debrief
- What are Authentic Assignments (and how often do we give them)?
- Giving students a framework for attacking authentic assignments – 4 Ds of Problem Solving

Reading Excerpt from Ted McCain

- Read the excerpt from *Teaching for Tomorrow*
- Think about:
 - **ASSUMPTIONS** the author holds
 - Things you AGREE with
 - Things you want to **ARGUE** with
 - Things you want to **ASPIRE** to



Silent Conversation Steps

- 1. Use the large post-it sheets to write a reaction to the text (assumptions, something you agree with, something you want to argue with, something you want to aspire to)
- 2. Post your comments on the appropriate large sheet on the wall
- 3. Read the comments of others
- 4. Respond in writing to comments of others as you feel led



Large Group Debrief

What were some themes that emerged in the conversation?

Did interacting with others' opinions influence any of your original opinions?

Debrief on the Activity Strategy

- What did you like about the silent conversation activity? Anything you did not like?
- How do you think a silent conversation activity would work with students?
- What might you need to change/adapt to make this work in your classroom?
- How likely are you to try something similar (with a text or visual representation from your specific curriculum)?

Taking smaller steps before plunging into McCain-style real world scenarios...



Authentic, Real World Assignments Involve at Least One of the Following:

- Authentic problem a problem or situation that can and will occur in the real world
- Authentic task a task that people perform in the work world
- Authentic process a set of instructions and parameters that are similar to a real world or work experience
- Authentic audience a product or performance shared with a particular group of people (outside the classroom)

How Frequently Do Your Assignments Involve an ..

- Authentic problem
- Authentic task
- Authentic process
- Authentic audience



Use handout sheet to estimate

Examples of Authentic Assignments



How Can Assignments Resemble Real World Job Assignments?

Some Examples

Presentation to City Council (either PRO or CON) regarding expansion of acreage zoned for growing marijuana for medical use





Proposal specifying work to be completed (like a construction or repair project) Personal trainer's fitness plan proposal and justification for client





Newspaper story with real world length and time constraints Needs assessment outlining top priorities for needs in a municipality, company or school regarding such issues as:

- Building maintenance
- Environmental pollution
- Aesthetic issues
- Resolving relational conflicts
- Food service





A children's book for a real audience –

Can be used in almost any subject area Other ideas for written, verbal, and artistic authentic assignments on handouts



Addressing Issue of Using Animals to Test Cosmetics



The Real-World Task

Concerned Citizens for Animals (CCFA) wants your company to craft a website that will promote public awareness about the cruel use of animals in cosmetic testing and advocate for a law that will outlaw it. At a minimum, it should include:

- a creative homepage with an interactive element to catch viewer attention
- a page explaining the dangers of animal-tested cosmetics
- a page on how companies can perform these tests to make them safe for human use without using animals
- a page that details the chemistry behind the tests what toxicity is, how chemists define it, and the reactions of different chemicals used in testing



But students need a framework for tackling such a nebulous, multi-step task Giving students a framework for problem solving is authentic learning that prepares them for the real world.





From Ted McCain, Teaching for Tomorrow

Define

• Overview

 \mathcal{D}

- List of criteria or specifications for completing the task (required and optional)
- Criteria for evaluating the product

	Problem Definition	
ame		
ate		
roject Title		
Overview		
Required Specifications		
Optional Specifications		
Evaluation Criteria		
Evaluation Criteria		
ignature		

Design

- Outline subtasks
- List of resources needed
- Specify learning needed

	Solution Design	
lame		_
ate		_
roject Title		_
Subtasks		
Resources Needed		
Learning Needed		
		Teaching for Tomorrow, p. 60

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Helping Students Track Their Progress in Meeting Learning Goals

EVERYONE



"Arguably the most basic issue a teacher can consider is what he or she will do to establish and communicate learning goals, track student progress, and celebrate success."

Robert J. Marzano, The Art and Science of Teaching

A Sense of Accomplishment/Mastery/ Competence is One Source of Motivation

- Students need to have a way of monitoring their progress in mastering learning targets.
- Studies show that "when students track their own progress on assessments using graphic displays ... [there was] a 32 percentile point gain in their achievement" (Marzano, 2009, p. 1).

Guiding Questions

- How are we helping students to monitor their progress in meeting learning goals?
- In what ways do grades help students monitor their progress in learning?
- In what ways might grades not be as helpful as we might think in helping students monitor their learning progress?
- What do students whose grades indicate they are not succeeding need in order to make progress and experience success?

Reports from the Field



- How are students checking their grades on the portal?
- What kind of guidance do they receive?
- Are all students doing this?
- What impact does this seem to be having?

Group Discussion Using Google Docs



- On your computer, open Chrome
- At the top right, click: > New Incognito Window
 or -

you can use the following keyboard shortcut:

- On a PC: Press **Ctrl + Shift + n**
- On a Mac: Press \mathcal{H} + Shift + n
- Next, follow the case sensitive link provided to you
- If you see someone around you have tech trouble, please lend a helping hand
- Please help everyone get the most out of this activity by keeping the environment as quiet as possible ^(C)

Small Group Discussion



- In what ways do grades help students monitor their progress in learning?
- What else might students need to be able to reflect on and respond to their learning progress?

Small Group Discussion

 In what other ways (besides giving grades) are you currently helping students monitor their learning progress in your classes?





Examples of Helping Students Track Their Learning Progress

UNIT PLAN

Overarching learning goal that addresses current and future relevance...

		How well can I do this? 1= Not at all 2= A little 3= Very well			Evidence that I can do this	
	Learning Target	Unit Start	Unit Midpoint	Unit End		Goal Met?
Knowledge/Reasoning	1.					
Targets	2.					
"What do I need to know?"	3.					
"What can I do with what I know?"	4.					
knowr	5.					
	6.					
	7.					
Skill/Product Targets	8.					
"What can I demonstrate?"	9.					
"What can I produce to show	10.					
my learning?"	11.					

Adapted from Myron Dueck, *Grading Smarter Not Harder*, pp. 79-80. Dueck credits his colleague Karl Koehler from Humble, TX

Adrian Nelson Tracking My Progress in Mathematics period 3

Make sense of problems and persevere in solving them – being able to explain the meaning of a problem; planning a solution pathway rather than immediately jumping into an attempt; monitoring and evaluating progress and changing course if necessary; continually asking "does this make sense?"

1	· · · · · · · · · · · · · · · · · · ·
---	---------------------------------------

Reason abstractly and quantitatively – making sense of quantities and their relationships in problem situations; representing situations symbolically, and contextualizing symbols into understandable quantities, units and relationships

4			
3			
2			
1			
0			
	Unit 1: rate of change	Unit 2: linear functions	Unit 3: statistical modeling
	Self Assessment Teacher	Self Assessment Teacher	Self Assessment Teacher

Construct viable arguments – using stated assumptions, definitions, and results to make conjectures and construct arguments that build off of a logical progression of reasoning

4					
3					
2	MARAAAAAAAAAAAAA				
1	ANNA MALER STATISTICS				_
0					
	Unit 1: rate of change	Unit 2: linear	functions	Unit 3: Statis	tical modeling
	Self Assessment Teacher	Self Assessment	Teacher	Self Assessment	Teacher

Attention to precision – communicating precisely; using mathematical symbols consistently and appropriately; specifying of units of measure; labeling axes, tables and graphs; calculating accurately

4			
3			
2			
1			
0	Chan Manin San Marin		
	Unit 1: rate of change	Unit 2: linear functions	Unit 3. statistical modeling
	Self Assessment Teacher	Self Assessment Teacher	Self Assessment Teacher

Tracking Progress in Specific Mathematics Skills:

- Making sense of problems and perseverance in solving them
- Reasoning abstractly and quantitatively
- Constructing viable arguments
- Attention to precision

Providing Structure for Students to Track Progress

• Providing tables for students to keep track of rubric scores on different writing skills over time:

Each paragraph includes specific evidence to support my claims

4					
3					*
2		*	*	*	
1	*				
0					
	Paper 1	Paper 2	Paper 3	Paper 4	Paper 5



 Keeping student work portfolios to use in student-teacher conferences to reflect on work progress over time

Small Group Sharing



- Take a couple of minutes to look over the examples in your folder
- Then discuss with those seated near you:
 - What thoughts are emerging for you about designing and implementing a regular, systematic way for students to:
 - monitor their progress on learning goals?
 - reflect on steps they need to take to grow in mastery?

Reflecting on Grading and Assessment





 \mathcal{D}

Opening up the gradebooks



What % of My Students Are Currently Not Succeeding in My Classes?

	Class 1	Class 2	Class 3	Class 4	Class 5
Number of students below 60					
Number of students in class					
% below 60					

Department Discussion Using Google Docs



Department Discussing Using Google Docs

• Please go to the most appropriate link based on the courses you teach

add link

- Type **goo.gl/** followed by:
 - English add link
 - World Languages
 - *Math* add link
 - *Science* add link
 - Social Studies
 add link
- Remember, links are case sensitive!

Fine Arts add link
CTE add link
PE add link
General Special Ed add link

Questions to Ponder

- What are the main reasons your students are not succeeding?
- What steps do these students need to take to be able to pass this semester?
- What supports do these students need to help them recover?
- For how many of your students is it already too late to pass this semester?

Next Steps

- What next steps need to happen for students who are failing?
- Are there policies or practices currently in place that, if changed, would help us help more students succeed the first time they take a course?

Fact or Fiction? Distinguishing Fake News from Real News

Engaging Students in Critical Reading Skills

EVERYONE GRADUATES



Guiding Question

How can I leverage students' natural interests to engage them in building one of the most critical skills in contemporary society:

The ability to evaluate information from the media

- What evidence do we have about students' ability to evaluate information?
- How can we engage students in learning how to evaluate information they encounter?
- How can we increase students' ability to identify and reject unreliable information?

Wall Street Journal Headline

Most Students Don't Know When News Is Fake, Stanford Study Finds

Teens absorb social media news without considering the source; parents can teach research skills and skepticism

WSJ, November 21, 2016

Reactions?

Do you tend to believe this headline, or find it questionable?

Why? What factors help to explain your reaction?

Most Students Don't Know When News Is Fake, Stanford Study Finds Teens absorb social media news without considering the source; parents can teach research skills and skepticism

WSJ, November 21, 2016



Findings from the Stanford Study

- Fewer than 1 in 5 high school students "questioned the source of the post or the source of the photo" in a claim about the effects of radiation on plant life after the Fukushima disaster
- Fewer than 1 in 5 middle school students can distinguish between native advertisements (identified as "sponsored content") and news stories

"Overall," the report concluded, "young people's ability to reason about the information on the internet can be summed up in one word: *bleak*." Chris Berdik

http://www.slate.com/articles/technology/future_tense/2016/12/media_literacy_courses_help_high_school_students_spot_fake_news.html

News Stories

Fact or Fiction?





Simon Rowntree @SRowntreeNews · 16h

I am at a Trump rally in Manhattan, and thousands are chanting "We hate Muslims, we hate blacks, we want our great country back". Disgusting

🕤 🛛 🔁 150K 🖤 120K 👓

WikiLeaks CONFIRMS Hillary Sold Weapons to ISIS... Then Drops Another BOMBSHELL!

Read more:

http://thepoliticalinsider.com/wikileaks-confirmshillary-sold-weapons-isis-drops-another-bombshellbreaking-news/#ixz24aZDSK6EL
Small Group Discussion Exercise (How might something like this work in your classroom?)

Teachers will play the roles of students divided into small groups to accomplish the following tasks collaboratively:

- Read the "news" story assigned to your group.
- Develop a list of questions you need to find answers to in order to evaluate whether the "news" story is reliable or not.
- List the questions in a logical order on your poster chart.
- Suggest at least one good way to find the answer to each question, and be ready to defend why it is a good approach.

Large Group Share-Out

Teacher Reflection on Where Students Will Need Scaffolding

- Which questions do you think your students will be able to come up with themselves?
- Which questions do you think they will probably not think of?
- Are there ways to probe and help students discover what they need to know without telling them directly? (And why might it be important to do this?)
- What methods for answering their questions are students likely to suggest? Where will they need guidance in finding reliable sources?

What are the pros and cons of teaching such a checklist prior to asking students to consider coming up with such a list on their own?



STORY

- 1 READ PAST THE HEADLINE
- 2 CHECK WHAT NEWS OUTLET PUBLISHED IT
- 3 CHECK THE PUBLISH DATE AND TIME
- 4 WHO IS THE AUTHOR?
- 5 LOOK AT WHAT LINKS AND SOURCES ARE USED
- 6 LOOK OUT FOR QUESTIONABLE QUOTES AND PHOTOS
- 7 BEWARE CONFIRMATION BIAS
- 8 SEARCH IF OTHER NEWS OUTLETS ARE REPORTING IT
- 9 THINK BEFORE YOU SHARE

Huffington Post, November 22, 2016

Addressing the Issue of "Fake News" in My Classroom

How can I fit this into my curriculum?

What standards does this address?

What do I need to do next to try this out?



Reading Informational Text Standards (CCSR Grades 9-10 for ELA and SS)

- I can determine the author's point of view in a text. (RI 6-1)
- I can determine the author's purpose for writing a text. (RI 6-2)
- I can analyze accounts of the same subject told in a different medium, determining which aspects are emphasized in which medium. (RI 7-1)
- I can assess whether an author's reasoning is valid and whether s/he has enough relevant evidence to support the claims s/he makes. (RI 8-2)
- I can identify false statements and fallacious reasoning. (RI 8-3)

Ideas for Engaging Students in Identifying Fake News



"I'm sorry, Jeannie, your answer was correct, but Kevin shouted his incorrect answer over yours, so he gets the points."

Cartoon by Joe Dator, The New Yorker

Additional Ideas for Engaging Students in Identifying Fake News

Teachers peruse and discuss distributed lesson plan ideas and their own ideas

Teacher Reflection Questions

- What student interests am I aware of that can provide a segue to engaging them in the importance of distinguishing fake news from real news?
- How can I link this topic to upcoming topics in my curriculum?
- What steps do I need to take to design engaging and effective lesson plans on this topic for my students? What resources would be helpful? With whom will I discuss this more?

Engaging Students in Science Through Discussion of Science News Articles

EVERYONE GRADUATES



Guiding Questions

How might science news stories capture students' natural interests to engage them in learning science content, concepts and practices?

Session Agenda

- Experience a "Science News" activity
- Debrief the experience and examine as a department
- Explore the site for potential use in an upcoming unit in your classroom

Secure https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/leadsamplinginschools/pr011717_lead_test_schools.pdf

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pr011717_lead_test_schools.pdf



1/2

California Water Systems to Provide Lead Testing For Schools

FOR IMMEDIATE RELEASE Jan. 17, 2017

Contact: Andrew DiLuccia Phone: (916) 324-4775 andrew.diluccia@waterboards.ca.gov

SACRAMENTO – In an effort to further safeguard California's water quality, K-12 schools in the state can receive free testing for lead under a new initiative announced today by the State Water Resources Control Board.

The Board is requiring all community water systems to test school drinking water upon request by the school's officials.

There are approximately 9,000 K-12 schools in California, most of which are served by more than 3,000 community water systems in the state. While these community water systems extensively and regularly test their drinking water for lead, lead could get into clean water at a school campus if there were corroded pipes or old fixtures at the school.

Because California has newer infrastructure and less corrosive water than other parts of the country, lead problems at the tap are uncommon. However, national events have highlighted the importance of ongoing water quality monitoring and in 2015 Governor Edmund G. Brown Jr. directed the State Water Board to incorporate schools into the regular water quality testing that community water systems conduct at customer's taps.

How confident are we about our drinking water at our school?



Features of "Science News for Students"

https://www.sciencenewsforstudents.org

- Power words
- Data dive
- Real data on lead levels in school drinking water

Directions for Student Reading in Pairs

- Decide who will be A and who will be B
- EITHER read the first paragraph silently OR A reads aloud B follows along
- B paraphrases the content
- EITHER read the second paragraph silently OR B reads aloud A follows along
- A paraphrases the content
- Continue through the remainder of the article

Pairs Combine into Fours

- Discuss the first two data dive questions
- Select the graph for just one school to discuss question three

Whole Group Discussion Questions

- If the water was tested again, what are your hunches about how the results might be different?
- How might you present this data?
- Review the Lead Sampling in California handout.
- What questions does this raise?

Debrief

- Thoughts about this experience?
- How might students respond to this?
- How might this type of activity address the curriculum?

Conceptual Shifts in the NGSS

- 1. K–12 science education should reflect the real world interconnections in science
- 2. Using all practices and crosscutting concepts to teach all core ideas all year
- 3. Science concepts build coherently across K-12
- 4. The NGSS focus on deeper understanding and application of content
- 5. Integration of science and engineering
- 6. Coordination with Common Core State Standards



Framework for K-12 Science Education & Next Generation Science Standards (NGSS)

 Asking questions (for science) and defining problems (for engineering) Developing and using models Planning and carrying out investigations Scale, proportion, and quantity Systems and system models Energy and matter: Flows, cycles, and conservation Structure and function Structure and function Stability and change 	1. Scientific and Engineering Practices NSES – Process Skills, Inquiry, and Nature of Science	2. Crosscutting Concepts NSES – Unifying Concepts	3. Disciplinary Core Ideas NSES Science Content Adds Engineering and STEM
 science) and designing solutions (for engineering) 7. Engaging in argument from evidence 8. Obtaining, evaluating, and communicating information 	 defining problems (for engineering) 2. Developing and using models 3. Planning and carrying out investigations 4. Analyzing and interpreting data 5. Using mathematics and computational thinking 6. Constructing explanations (for science) and designing solutions (for engineering) 7. Engaging in argument from evidence 8. Obtaining, evaluating, and 	 Cause and effect: Mechanism and explanation Scale, proportion, and quantity Systems and system models Energy and matter: Flows, cycles, and conservation Structure and function Stability and change Utilizes History of Science and Social 	 Life Sciences Earth and Space Sciences Engineering, Technology, and the Applications of Science

Time to Explore the Site

- What news pieces are available that align with content in my upcoming curriculum?
- Which scientific and engineering practices might the activity be designed to address?
- What resources or actions would I need to do next to try this out?

Teacher Reflection Questions

- What steps do I need to take to use this resource in the design of engaging and effective lesson plans?
- What resources would be helpful?
- With whom will I discuss this more?

Using Project-Based Learning to Deepen Learning and Engagement

EVERYONE GRADUATES



Project-Based Learning (PBL)



- Learning by doing
- Real world connection
- Engages student interest
- Associated with higher or equally high student academic achievement outcomes
- Teaches skills for real world of work

Agenda

- Teachers engage in short PBL experience
- Debrief about learning from the experience
- Videos and discussion about how students perceive PBL
- Explore site with example PBL units in different subject areas
- Reflect on how you may be able to incorporate PBL in your classroom

Marshmallow Tower Challenge

In 18 minutes, build the tallest free-standing structure out of 20 sticks of spaghetti, 3 feet of tape, 3 feet of string, and 1 marshmallow. The marshmallow must be on top.



Marshmallow Tower Challenge

- Task: Build a free-standing tower that will support the weight of one regularsized marshmallow **on top**
- Materials (do not all need to be used):
 - 20 pieces of uncooked spaghetti
 - 1 yard of tape
 - 1 yard of string
 - 1 marshmallow









Debrief of Marshmallow Tower Challenge

- As a learner, what did you learn from this challenge?
- What made this activity engaging or motivating?
- To what extent might students be able to learn from such an experience as the Marshmallow Tower challenge, even though it is not related to course content?

Debrief of Marshmallow Tower Challenge

- What is needed to create a project that requires collaboration?
- What skills do students need to collaborate effectively?
- What collaboration skills may need to be taught to students and scaffolded rather than assumed?

How Do Students Experience PBL?



INSERT VIDEO HERE

http://www.bie.org/object/video/it_really_actually_changed_my_life

When you register at Buck Institute for Education PBLWORKS <u>www.bie.org</u>, you can access this video to show to teachers (at no cost)

Debrief of PBL Video

What did you find striking or interesting about student perceptions of PBL?

How do the points made by students match your experience as an educator?



5 Keys to PBL

Establishing Real-World Connections

Core to Learning

Structured Collaboration

Student-Driven

Multi-faceted Assessment

From http://www.edutopia.org/video/5-keys-rigorous-project-based-learning
PBL Exploration

- We will explore more ideas for PBL
- Check out this resource: <u>WWW.pblworks.org</u>
- Register (free) to get access to resources
- Examine the various topics, and generate an idea for a project you could implement in your classroom



my.pblworks.org/resources

Search

Type (-)

Articles (6)

Rubrics (23)

Project Videos (35)
Other Videos (19)
Planning Tools (9)

Strategy Guides (17)

Student Handouts (12)

121 Results

Go

PLANNING TOOLS

Project Design Rubric



Plan projects with Gold Standard PBL's Essential Project Design Elements.

PROJECT VIDEOS

Water Quality Project



PBLWorks Project Videos 2018: High School Chemistry - Rayhan Ahmed, Leaders High School.

PROJECT VIDEOS

Revolutions Project Video



PBLWorks Project Videos 2018: High School World History - Erin Brandvold,

Impact Academy of Arts & Tech

my.pblworks.org/projects

Search Go Subject Area (-) ELA (23) Fine Arts (7) Health/PE (2) Math (18) Science (17) Social Studies (19) STEM (8) World Languages (2) Grade Level (-) 🔟 K-2 (15) 3-5 (15) 6-8 (25)

9-12 (30)

65 Results



Comic Book Algebra

How can we as comic book designers build superhero worlds that teach others about math?



Grade 3

Species Survival

How can we protect an endangered species in our area?





Choose a subject – get links to sample units

Examples of projects under "Health/PE"

Search



Go

Fine Arts (7)

Health/PE (2) Math (18)

Science (17)

Social Studies (19)

STEM (8)

World Languages (2)

Grade Level (-)

🔲 K-2 (1) 3-5 (1) 6-8 (2) 9-12 (1)



Planning to Thrive

Health/PE X

Clear all

2 Results

How can we set and achieve personal goals that help us thrive?



Grades K-12

Healthy Choices = Long Life

How can our school best support our overall health and wellness?

Examples of projects under "Fine Arts"

Search

 \mathcal{D}



Go





🗐 ELA (23)

- _ ____
- Fine Arts (7)
- 🔲 Health/PE (2)
- 🔲 Math (18)
- Science (17)
- Social Studies (19)
- STEM (8)

World Languages (2)

Grade Level (-)

🗐 K-2 (2)
🗐 3-5 (1)
🔲 6-8 (4)
9-12 (5)



Grade 1

Boom Boom Flash!

How can we use light and sound to communicate different kinds of feelings without words?



Grades 9-12

Setting the Stage

How can we design a theatrical set that adds meaning and power to a production?

Examples of projects under "World Languages"

Search



Subject Area (-)

Social Studies (19)

World Languages (2)

Grade Level (-)

Standards (-)

ELA (23)
Fine Arts (7)
Health/PE (2)
Math (18)
Science (17)

STEM (8)

9-12 (2)

Go

Clear all World Languages

2 Results



Grades 11-12

What in the World?

What can international media tell us about what is REALLY happening around the world?



Grades 9-10

Welcome to Our School (¡Bienvenidos a nuestra escuela!)

How can we use our target language to help visitors learn about our school?

Teacher Reflection

- What upcoming units and/or content standards could be addressed through a project-based learning approach?
- What next steps could I take to plan a PBL mini-unit?
- What resources and/or information do I need and how will I obtain these?
- When and with whom will I discuss my planning further?

For Final Upcoming Session: Volunteer to Share From Your Practice

What have I done <u>differently</u> this year in my teaching to seek to engage more students more deeply in academic work?

How has it worked? What have I learned from what I have tried?



Reflecting on Student Work, Student Progress, and Next Steps for Continuous Improvement





Guiding Questions for the Series

- How do we motivate students to engage in rigorous academic work?
- How can we adapt our classroom instructional practices to tap into students' intrinsic motivation?
- How can we do this as a collaborative community?

Where have you come from and where are you going?

(Genesis 16:8)





Building Community

Relevance/ Engaging Instruction

Choice/Autonomy

Monitoring Student Progress

Grading/Assessment

Building Community

• Getting to know your students

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- Connecting learning to students' lived experiences and culture
- Cooperative learning strategies



Relevance/Engaging Instruction



- Reframing objective
- Authentic Assignments
- Project-Based Learning

Choice/Autonomy

Providing menus and options for students to choose



Monitoring Student Progress



- Providing students with tools to monitor their own progress
- Helping students reflect on their own progress

Grading/Assessment

- 100 vs 5 point scale
- Power of 0
- Opportunities for recovery



Reflection Exercise

Create a visual representation of your journey this year in teaching, addressing the following questions:

- What have I done <u>differently</u> this year in my teaching to seek to engage more students more deeply in academic work?
- How has it worked? What have I learned from what I have tried?
- What changes in student engagement and student outcomes have I seen?
- How has this impacted me?
- What next steps do I need to take in a continuous improvement process?

Share your journey

Pose questions to your colleagues



How do I sustain an effective continuous improvement process in my practice?



Cycle of Inquiry Process



Plan – Do – Study – Act Cycle



Thanks so much for your participation in this journey!

