



# Template for setting up "Solving World Problems"

TASK	DISCUSSION
Concept	Tailor the project around shorter list of skills to save time. College, Career Readiness (CCR) & Societal Skills
Discussion  <i>PBL is not enough ... Students must be cognitively aware of skills they are using</i>	<ul style="list-style-type: none"> <li>• Student population</li> <li>• Allotted schedule ... Time</li> <li>• Problem focus ... other topics ( Books )</li> <li>• Goals for the students by the organization</li> </ul>
Set up Web Hosting class site	Student communication & document storage
Introduction Meeting  <i>Each one of us must buy-in and want to make all of us successful</i>	<ul style="list-style-type: none"> <li>• World problem discussion</li> <li>• Team work</li> <li>• Skills</li> <li>• Play first <a href="https://youtu.be/f9LM88h-I-U">https://youtu.be/f9LM88h-I-U</a></li> </ul>
Start Problem Solving	Frame the problem
Research	
Requirements	
Collect ideas	
Selecting possible solution	
Testing	
Reflection	
Reporting	Mark Somerville .. Olin College
Celebration	



<p>How do we stay current?                  Set-up; on-line collaboration for continuing learning after the program</p>	
<p>External support to provide feedback and mentoring during the program:</p> <ol style="list-style-type: none"> <li>1. Develop and contact Community/Business partners</li> <li>2. Provide example of curriculum</li> </ol>	
<p>Basic skills for learning</p> <ul style="list-style-type: none"> <li>• <i>PBL is not enough ... Students must be cognitively aware of skills they are using</i></li> <li>• <i>Each skill has an on-line data sheet for reference</i></li> </ul>	Innovation
	Executive functions, Empathy
	Self-Esteem
	Brain Plasticity, Mind-set
	Decision making
	Negotiation; Conflict resolution
	Team work
	Problem solving
Model of activity	<p>Lots of use of: <i>Creative/Critical thinking, Questions and Meta-Cognitive Reflection</i></p>

Example of weekly elements:

Week/ 2 hr /week?	Class work
Week 1 <i>What are our learning targets (goals) for the class?</i> <b>Show PPT learning</b>	Introduction / team creation/ project directions. How do we want to be measured? <b>Negotiation ; Study skills, Team building</b>
1st Hour	
15 minutes	Introduction
15 minutes	"Agenda review" & discussion (copy for team)
15 minutes	Begin to design our main problem
Students to think about what problem they want and bring back to next class!	



Week/ 2 hr /week?	Class work
2nd Hour	
15 minutes	Review and pick problem to solved
15 minutes Negotiation	How are we going to organize and form a team
15 minutes	Setting team objective and culture
Students to think about Elevator pitch they want and bring back to next class!	
Week 2 <i>Who is going to judge the outcome (businesses, community)?</i>	Discuss our problem to be solved. <b>Planning process, Time management, Business plan</b>
1st Hour	
15 minutes	Elevator pitch finalized
15 minutes	Business plan
15 minutes	Reflect on Agenda items to our problem
What is executive functions and Priority related to our project?	
2nd Hour	
15 minutes	
15 minutes	
15 minutes	
Week 3 What's unique	Begin problem solving <b>Thinking skills , Values</b>
	1st Hour
15 minutes	
15 minutes	
15 minutes	
2 <sup>nd</sup> Hour	
15 minutes	
15 minutes	
15 minutes	



<b>Week/</b>	<b>2 hr /week?</b>	<b>Class work</b>
Week 4 <i>Shaping from Olin college</i>		Brain storming, Discussing solutions <b>Sorting,</b>
1st Hour		
15 minutes		
15 minutes		
15 minutes		
2nd Hour		
15 minutes		
15 minutes		
15 minutes		
Week 5 <i>Building resume</i>		<b>Decision making</b>
Week 6		Testing ideas, <b>Reflection</b>
Week 7 <i>How do you stay current</i>		Formatting solution, <b>Financial planning</b>
Week 8		Students presentation; what did we learn? <b>Feedback, Measurements</b>
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