Time Frame: 2 Weeks	Unit Title: Problem Solving	Course Name: Technology and Society		
Stage 1 - Desired Results				
Established Goals	Transfer			
NH CS Standards	Students will be able to independently use their learning to			
AP - Algorithms & Programming	use a structured problem solving process to address problems and design solutions.			
<ul> <li>1B-AP-08 - Compare and refine multiple algorithms for the same task and determine which is the most appropriate.</li> <li>2-AP-13 Decompose problems and subproblems into parts to facilitate the design, implementation, and review of programs.</li> <li>Common Core State Standards for English</li> </ul>	Meaning			
	UNDERSTANDINGS Students will understand that	ESSENTIAL QUESTIONS Students will keep considering		
	A model is a tool to help reach desired outcomes.	What strategies and processes can I use to become a more effective problem solver?		
	Following a problem solving model will aid in successful outcomes.	What is the problem solving process?		
	Breaking a larger problem into parts will help make it easier to solve.	What actions can I take to solve problems?		
	Define, prepare, try, & reflect are key parts to the problem solving model.	How can I improve my ability to solve problems by analyzing the application of the problem solving process by others?		
Language Arts	Acquisition			
Speaking and Listening 6-12	Students will know	Students will be skilled at		

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1. Initiate and participate effectively in a range of	<b>Define</b> - How to thoroughly define a problem.	•	Communicating and collaborating with classmates in order to solve a problem
collaborative discussions	Prepare - Steps to take to prepare a solution to the		
(one-on-one, in groups, and teacher-led) with	problem	•	Iteratively improving a solution to a problem
diverse partners on grades 9–10 topics, texts, and	Try - Implementing a solution	•	Identifying the four steps of the problem solving process
issues, building on others'	<b>Reflect</b> - How to reflect on the process and think about		
ideas and expressing their own clearly and persuasively.	future applications	•	Given a problem, identifying individual actions that would fall within each step of the problem solving process
Next Generation Science Standards		•	Identifying useful strategies within each step of the problem solving process
HS-ETS1-2. Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.			

The UbD Template, Version 2.0 2011 by Grant Wiggins and Jay McTighe