The UbD Template, Version 2.0

Time Frame: 2 Weeks	Unit Title: Problem Solving	Course Name: Computer Science Grade 8	
Stage 1 - Desired Results			
Established Goals	Transfer		
Students will use a structured problem solving process to address problems and design solutions.	tured problem solving ess to address problems		
NH CS Standards AP - Algorithms &	Meaning		
<ul> <li>1B-AP-08 - Compare and refine multiple algorithms for the same task and determine which is the most appropriate.</li> <li>1B-AP-11 - Decompose (break down) problems into smaller, manageable subproblems to facilitate the program</li> </ul>	<ul> <li>UNDERSTANDINGS Students will understand that</li> <li>Following a problem solving model will aid in successful outcomes.</li> <li>A model is a tool to help reach desired outcomes.</li> <li>Define, prepare, try, &amp; reflect are key parts to the problem solving model.</li> </ul>	<ul> <li>ESSENTIAL QUESTIONS         Students will keep considering         • What strategies and processes can I use to become a more effective problem solver?         • What is the problem solving process?         • What actions can I take to solve problems?     </li> </ul>	
	Acquisition		
	Students will know	Students will be skilled at	

development
process.

- 1B-AP-16 Take on varying roles, with teacher guidance, when collaborating with peers during the design, implementation and review stages of program development.
- Define How to thoroughly define a problem.
- Prepare Steps to take to prepare a solution to the problem
- Try Implementing a solution
- Reflect How to reflect on the process and think about future applications
- Communicating and collaborating with classmates in order to solve a problem
- Iteratively improving a solution to a problem
- Identifying different strategies used to solve a problem
- Identifying the four steps of the problem solving process
- Given a problem, identifying individual actions that would fall within each step of the problem solving process
- Identifying useful strategies within each step of the problem solving process

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