The UbD Template, Version 2.0

Time Frame: 2 Weeks	Unit Title: Problem Solving	Course Name: Computer Science Grade 7
Stage 1 - Desired Results		
Established Goals	Transfer	
Students will use a structured problem solving process to address problems and design solutions.	·	
NH CS Standards AP - Algorithms &	Meaning	
 1B-AP-08 - Compare and refine multiple algorithms for the same task and determine which is the most appropriate. 1B-AP-11 - Decompose (break down) problems into smaller, manageable subproblems to facilitate the 	 UNDERSTANDINGS Students will understand that Following a problem solving model will aid in successful outcomes. A model is a tool to help reach desired outcomes. Define, prepare, try, & reflect are key parts to the problem solving model. 	 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?
	Acquisition	
program	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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