

5. Computational Thinker

Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions. Students:

- formulate problem definitions suited for technology-assisted methods such as data analysis, abstract models and algorithmic thinking in exploring and finding solutions.
- collect data or identify relevant data sets, use digital tools to analyze them, and represent data in various ways to facilitate problem-solving and decision-making.
- break problems into component parts, extract key information, and develop descriptive models to understand complex systems or facilitate problem-solving.
- understand how automation works and use algorithmic thinking to develop a sequence of steps to create and test automated solutions.

	Technology Targets											
	I = Introduce: Skill is demonstrated, discussed, and experienced. D = Develop: Skill is practiced, reinforced, and enhanced. P = Proficient: Efficiently applies skills in predictable and unpredictable situations											

	K	1	2	3	4	5	6	7	8	9	10	11 12
I will be able to explore and describe patterns from data in spreadsheets or tables.		I	D	P								
I will be able to collect and analyze data in a spreadsheet or table.			I	D	D	D	D	D	D	P		
I will be able to use digital tools to gather, analyze, graph and/or report results of investigation.			I	I	D	D	D	D	P			
I will be able to use interactive resources. (Example: digital/online virtual field trips, math manipulatives, electronic maps and other simulations and models, etc.)				I	D	D	D	P				
I will be able to find, use, and compare online data, and/or digital models/simulations to collect evidence and forecast trends.					I	D	D	P				
I will be able to select the proper technology tools to input, select, analyze and interpret data.									I	D	D	p