Computational Thinker - Student Scale

Create a digital model to present information and solve problems

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

4	 I can 4A Analyze and create various data diagrams to identify patterns in data. Analyze and use data to identify problems and develop solutions. 			 I can 4B Develop algorithms/programs to test automations with varied outcomes. Use an iterative approach to manipulate an algorithm/program to optimize an automated solution.
Grade Level	 Collect and present the same data in various visual formats. Use digital tools to analyze data, draw conclusions, and present findings. 			 Use digital tools to create and test virtual models/designs. Create a presentation to share a virtual model/design. Compare test results with stated requirements to evaluate a design.
2	I can recall a vocabulary Algorithm Design Iteration Math Model	Leverage Automation Data Physical Model	Prototype Sequence Analyze 3D model	 I can perform basic procedures and operations such as: Describe automated systems using the Systems Model. Engage in a design process to develop, test and revise prototypes of automated solutions. Identify and describe algorithms that exist within the natural world. Identify patterns/trends in data to make predictions.
1	I can have partial success at a level 2.			 I can use: Digital tools to collect and organize information. (Documents, Spreadsheet, Slideshow) 3D Modeling software. Autodesk (Fusion 360, TinkerCad, OnShape)