Computational Thinking: Algorithm Design Self Evaluation

 List at least three examples of algorithms from everyday life. Answers vary, but may include: Following a recipe Getting dressed Learning dance steps 	
2. In your own words, define algorithm.	
An algorithm is a set of instructions that carefully, sequentially and accurately explain how to complete a task.	
3. List the step(s) of the modelling phase of the Computational Thinking process. ModellingDecomposition, Pattern Recognition, Abstraction/Pattern Generalization	
 List the step(s) of the operations phase of the Computational Thinking process. OperationsAlgorithm Design 	
 True or false, when using Computational Thinking, all algorithms must be designed for a computer to carry out. False	
6. True or false, if an algorithm is being written for a computer to follow, it is critical that the steps are written in such a way that a computer can understand them. True	
7. Complete the following sentences by filling in the blanks. The basic unit of communication in computing is bits . The binary system utilizes the numbers 0 and 1 to communicate information.	
8. List four necessary understandings for designing algorithms.	
Your instructions must be unambiguous. You must have defined inputs and outputs. You need a defined end point. You need to be able to interpret your algorithm's results.	

9.	Create a flowchart to represent the steps required to perform an everyday activity, such as taking a shower or getting dressed.

10. True or false, once an algorithm is designed to solve a problem, it is critical that it is tested, interpreted, reevaluated and refined (possibly multiple times) to be sure it is truly providing an accurate solution.

True