CCMI – Unit 3 Vocabulary

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| domain | the set of all inputs or x-values |
| explicit equation | an equation that tells how to calculate an output value based on a given input value |
| input | a value that is entered |
| iteration | a repetitive process |
| mapping diagram | diagram that matches input values with their corresponding output values using arrows |
| output | a value that is calculated from the input value using a set rule |
| range | the set of all outputs or y-values |
| recursive equation | an equation that shows how to calculate the value of the next term in a sequence from the value of the current term (or a combination of previous terms) |
| relation | a set of ordered pairs |
| sequence | a list of numbers where each term is based on the previous term or a combination of previous terms using a set pattern or rule |
| cipher | the algorithm used to encode information |
| cryptography | the study of secret codes |
| decryption | the process of decoding encrypted information |
| encryption | the process of encoding information using an algorithm |
| function | a relationship for which there is exactly one output for each input |
| key | in cryptography, information on how to read a secret code |
| letter-shift code | code where letters are mapped to other letters in the alphabet by shifting all letters (in order) a certain number of spaces |
| vertical line test | a test used to determine if a relation is a function. A relation is a function if there are no vertical lines that intersect the graph of the relation in more than one point |