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| **Clarity for Learning** | | | |
| **Standard KY.8.F.1** Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. | | | |
| **Concepts (Nouns)**  function  rule  input  output  graph of a function  ordered pairs | | **Skills (Verbs)**  understand  assigns | |
| **Learning Progressions**  *Prerequisite Skills:*   * Reasoning about proportional relationships and representing them in different ways * Use percent proportion and percent equation to solve problems * Identify the constant of proportionality and compare two proportional relationships represented in different ways * Use the formula y=mx+b as the linear equation where m represents slope and b represents the y-intercept   *Grade Level Skills:*   * Recognize a function is a relation in which each input, or x-value, has exactly one output, or y-value * Use diagrams, tables, graphs, equations, and ordered pairs to identify and interpret functions * Understand a relation is a set of ordered pairs, but not all relations are functions, a relation is function if each input value has exactly one output value * Represent linear functions with an equation and a graph, represent a nonlinear function with a graph   *Clarifications:*  Students understand the reasoning that not all relations are functions. Note: Function notation is not required in grade 8.  KY.8.F.1→ KY.HS.F.1 | | | |
| **Learning Intentions (I am learning to...)** | | **Success Criteria (I know I’m successful when...)** | |
| Understand relations and functions and connect representations of functions | | * I can tell whether a relation is a function. * I can identify functions by their equations, tables, graphs and ordered pairs. | |