Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

Collaboration / Math 8* / Grade 8 (Math Regional Curriculum)

Wednesday, October 31, 2012, 2:03PM

Standard/Module: Proficiency with Functions: 8.F.1 (Week 22, 3 Weeks)

Stage 1: Desired Results

Standards Focus

- Major (70%) Connects to Standards:
  8.EE.1
  8.EE.2
  8.EE.5
  8.EE.6
  8.F.2
  8.F.3
  8.F.5

Grade 8 Map

Standards

NYS: CCLS:Mathematics, NYS: 8th Grade , Functions
8.F Define, evaluate, and compare functions.

- 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.

Enduring Understandings	Essential Questions
Understand what a function is and what it looks like (ordered pairs, table, graph, mapping).	1. What is a function? 2. What is input and output? 3. What is a real-life example of a function? Non-example?

Critical Content

1. Function
   - Ordered pairs
   - Table
   - Graph
   - Mapping
2. Input and output
3. Graph of a function

Skills	Vocabulary
1. Understand that functions describe	Tier 2: corresponding, graph, ordered pairs,

relationships where one variable determines a unique value of the other. 2. Recognize a graph of a function as the set of ordered pairs consisting of an input and corresponding output. 3. Utilize the vertical line test to determine if a graph represents a function. 4. Give real-life examples of functions and non-functions.	relationship, table, unique Tier 3: dependent, function, independent, input, mapping, output, relation, vertical line test

Stage 2: Assessment Evidence

Assessments

Function or not a function?
Formative: Test: Written

Student determine whether the t-chart, graph and/or equation represents a function or not and justifies each response.

Stage 3: Learning Plan

Learning Activities	Resources
Use "Function Man" on www.harveyshomepage.com Use the Magic Money Machine Show examples of different functions versus non-functions. Students record their findings about what functions have in common to define a function. The Magic Money Machine	www.harveyshomepage.com www.illustrativemathematics.org www.illuminations.nctm.org

Differentiation Opportunities

Connect the table, the equation and the graph as being three representations of a function.

<< Previous Year

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