Submodule Plan Format for AMT Hybrid Classes

<table>
<tr><td>Module:Functions

Theme:

Submodule Topic: Functions (Definition)

Submodule-
Day 1
LEsson1</td><td>Objectives:
Define relations, functions, domain and range.
Understand and apply the vertical line test.</td><td>Outcomes:
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
Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change</td></tr>
<tr><td colspan="3">Notes for instructor:</td></tr>
<tr><td>Synchronous Lesson</td><td>Activities:</td><td>Resources:</td></tr>
<tr><td>Review prior lesson
Introductory activity
Lesson - Direct Instruction
Practice
Exit ticket - Assessment (fluency/application) and reflection (e.g.,</td><td>If it takes $25 to make a chair, how do you write the situation as a function?

Class analyses whether the relation between names of students and their ages represent a function or not. The class defines function.</td><td>

Practice 1
Practice 2
Practice 3
Practice 4
Practice 5</td></tr>
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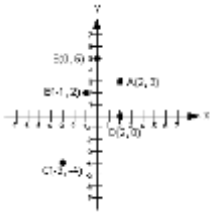
muddiest point) - 1 content and 1 reflection • Preview online - expectations	Students check whether given sets, mapping, graphs and equations represent functions or not Reply to the discussion post. Respond/comment to at least two classmates' post  $\{(2.5),(-2,3)(4,5)(2,3)\}$ Which coordinate do you eliminate from the graph and set to make them to a function? why	
Asynchronous Lesson	Activities:	Resources:
• Exploratory Activity (not necessarily every lesson) • Explanation • Practice: E.g. CK-12 • Quiz (optional) in D2L: 5-10 questions • Reflection (optional) in D2l	What is a function? Students watch a video lesson to understand function: Ck 12 Students practice problems based on function CK12 From the given set , which coordinate do you eliminate to make it a function? Explain why you choose it? $\{(2,4),(-1,6),(5,3),(-1,4),(74)$	Function- Definition: Video lesson 1 What is a function? Video lesson 2 Video lesson 3 Practice 1 Practice 2 }