

Universal Design for Learning Thinking Template

Objective:

(What are we learning today? How does it connect to previous learning? How does it connect to unit objectives? How does it connect to long-term goals?):

Today, we will connect our study of **rate of change to the formal definition of slope**. We will also begin to **define the meaning of slope and intercepts in the context of real-world situations**. For the rest of this topic, we will study situations in which multiple representations of linear functions (including diagrams, pictures, verbal descriptions, tables, charts, graphs, and different forms of equations) will be used to answer questions and make decisions.

Agenda <i>(What activities are planned?)</i>	Potential Misconceptions or Barriers: <i>(How might students struggle to ACCESS this lesson?)</i>		
11:30-11:34 – Do Now Staying Sharp 11:34-11:38 – Close Read (Partner) plus Story Time 11:38-11:45 – Complete Opener 11:45-11:47 – Objective 11:47-12:15 – Problem #1 – Skateboard Problem <ul style="list-style-type: none"> ● Constant Rate of Change ● Meaning of Intercept ● 1st Differences ● Change in y over Change in x 1:00-1:10 HW Protocol Your Job: Problem #2!	Representation: <ul style="list-style-type: none"> ● Reading the Problems – from the book and the animation ● Vocabulary-heavy: “x-axis” “y-axis” “rate” “linear” “slope” ● Reading graphs ● Delta sign and ● Differentiation of vertical vs. horizontal 	Expression: <ul style="list-style-type: none"> ● Writing thinking in words ● Labeling y-axis with arrows ● Translating to an ordered pair ● Filling in very small boxes for “change in” first differences ● Speaking answers to class 	Engagement:
	Plan to Tailor Instruction to Address Misconceptions or Barriers: <i>(How will you address the needs of all students in your classroom?)</i>		
	Representation: <ul style="list-style-type: none"> ● Close Read - Partner/Think Aloud/Read Pair Share ● Story Time ● Word Wall and Glossary ● Create coordinate plane on ground and rulers and iPhone ● Poster-sized tables with different colors for 1st differences ● Use animation for differences and “change in” for delta 	Expression: <ul style="list-style-type: none"> ● Close Read - Partner/Think Aloud/Read Pair Share ● Story Time ● Partners act out plan <ul style="list-style-type: none"> ○ Choose partners to use animation and explain ● Refer to Word Wall and Add to Glossary ● Create coordinate plane on ground and rulers and iPhone – act out change in y and change in x with movement and iPhone ● Create Poster-sized tables with colors <ul style="list-style-type: none"> ○ Choose partners to use animation/floor/poster to explain 	Engagement: