

MATH:

Daily Implementation Guides (DIGs) are designed to support the implementation of the enCORE curriculum as it was intended to be used. Teachers are encouraged to use the DIGs when planning their instruction. Each DIG covers the complete implementation of enCORE for each domain for a full lesson plan. Each DIG is broken down by “days” of instruction. However, given the needs of individual classrooms, a “day” on a DIG could last longer for classes that require slower pacing.

A DIG shows how to move through the specific lesson plan for each domain and includes the following:

- Objectives for each day;
- Materials needed;
- Segment number from lesson plan (where teachers can find the procedure(s) for instruction);
- Teacher-led lessons that correspond with the objective/instruction;
- Supplemental materials (if applicable)

Student-Led (SL) and Teacher-Led (TL) tech lessons:

Student-Led (SL) Technology Lessons will be assigned to each student by the computer. Teachers may administer all Teacher-Led (TL) tech lessons OR administer one TL tech lesson at a time and teach to student mastery.

enCORE Unit 83: The Odyssey Lesson 1

DAY 1	
Objectives:	<ul style="list-style-type: none"> Distinguish between functions and non-functions using equations, graphs, or tables. (Review)
Materials:	<ul style="list-style-type: none"> Unit 83 Lesson 1 MTH Warm-Up Worksheet 1 Lv 1 (per Level 1 student) Unit 83 Lesson 1 MTH Warm-Up Worksheet 1 Lv 2 (per Level 2 student) Unit 83 Lesson 1 MTH Warm-Up Worksheet 1 Lv 3 (per Level 3 student) Unit 83 Lesson 1 MTH Identifying Functions Worksheet Lv 2 (per Level 2 student) Unit 83 Lesson 1 MTH Identifying Functions Worksheet Lv 3 (per Level 3 student) Classroom Resources Coordinate Plane with Axes and Numbers (-5 to 5) Worksheet Classroom Resources Number Cards Worksheet Classroom Resources Yes/No Cards Worksheet Classroom Resources Scratch Paper Worksheet (per Level 2 and 3 student) Magnetic Whiteboard Large Dry Erase Pockets Magnetic Picture Pockets Unilink Cubes Classroom whiteboard Dry erase markers (two colors) Pencil (per Level 2 and 3 student) Calculator (per Level 2 and 3 student)
Segment:	1: Math Momentum
Procedure:	<ol style="list-style-type: none"> Deliver the Anchor Instruction. Then, have students complete the Math Warm-Up activity. Next, introduce core vocabulary using the leveled instruction in Core Vocabulary and Concepts. Provide math instruction as outlined in the Concept Building Section through the Guided Practice.
TL Technology Lesson(s):	<ul style="list-style-type: none"> Function or Nonfunction Lv 1, 2, and 3

DAY 2

Objectives:	<ul style="list-style-type: none">• Distinguish between functions and non-functions using equations, graphs, or tables. (Review)
Materials:	<ul style="list-style-type: none">• <i>Unit 83 Lesson 1 MTH Identifying Functions Worksheet Lv 2</i> (per Level 2 student)• <i>Unit 83 Lesson 1 MTH Identifying Functions Worksheet Lv 3</i> (per Level 3 student)• <i>Classroom Resources Coordinate Plane with Axes and Numbers (-5 to 5) Worksheet</i>• <i>Classroom Resources Number Cards Worksheet</i>• <i>Classroom Resources Yes/No Cards Worksheet</i>• <i>Classroom Resources Scratch Paper Worksheet</i> (per Level 2 and 3 student)• Magnetic Whiteboard• Large Dry Erase Pockets• Magnetic Picture Pockets• Unilink Cubes• Classroom whiteboard• Dry erase markers (two colors)• Pencil (per Level 2 and 3 student)• Calculator (per Level 2 and 3 student)
Segment:	1: Math Momentum
Procedure:	<ol style="list-style-type: none">1. Review core vocabulary using the leveled instruction in Core Vocabulary and Concepts.2. Provide math instruction as outlined in the Concept Building Section, including Independent Practice.
TL Technology Lesson(s):	<ul style="list-style-type: none">• Function or Nonfunction Lv 1, 2, and 3

DAY 3

Objectives:	<ul style="list-style-type: none">• 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. (Review)
Materials:	<ul style="list-style-type: none">• <i>Unit 83 Lesson 1 MTH Warm-Up Worksheet 2 Lv 1</i> (per Level 1 student)• <i>Unit 83 Lesson 1 MTH Warm-Up Worksheet 2 Lv 2</i> (per Level 2 student)• <i>Unit 83 Lesson 1 MTH Warm-Up Worksheet 2 Lv 3</i> (per Level 3 student)• <i>Unit 83 Lesson 1 MTH Comparing Functions Worksheet Lv 2</i> (per Level 2 student)• <i>Unit 83 Lesson 1 MTH Comparing Functions Worksheet Lv 3</i> (per Level 3 student)• <i>Classroom Resources Line Graph 6x6 Worksheet</i>• <i>Classroom Resources Coordinate Plane with Axes and Numbers (-5 to 5) Worksheet</i>• <i>Classroom Resources Yes/No Cards Worksheet</i>• <i>Classroom Resources Scratch Paper Worksheet</i> (per Level 2 and 3 student)• Large Dry Erase Pockets• Magnetic Whiteboard• Classroom whiteboard• Dry erase marker• Pencil (per Level 2 and 3 student)• Calculator (per Level 2 and 3 student)
Segment:	2: Math Momentum 2
Procedure:	<ol style="list-style-type: none">1. Deliver the Anchor Instruction.2. Then, have students complete the Math Warm-Up activity.3. Next, introduce core vocabulary using the leveled instruction in Core Vocabulary and Concepts.4. Provide math instruction as outlined in the Concept Building Section through the Guided Practice.
TL Technology Lesson(s):	<ul style="list-style-type: none">• Comparing the Slope of Two Lines Lv 1, 2, and 3

DAY 4

Objectives:	<ul style="list-style-type: none">• 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. (Review)
Materials:	<ul style="list-style-type: none">• <i>Unit 83 Lesson 1 MTH Comparing Functions Worksheet Lv 2</i> (per Level 2 student)• <i>Unit 83 Lesson 1 MTH Comparing Functions Worksheet Lv 3</i> (per Level 3 student)• <i>Classroom Resources Line Graph 6x6 Worksheet</i>• <i>Classroom Resources Coordinate Plane with Axes and Numbers (-5 to 5) Worksheet</i>• <i>Classroom Resources Yes/No Cards Worksheet</i>• <i>Classroom Resources Scratch Paper Worksheet</i> (per Level 2 and 3 student)• Large Dry Erase Pockets• Magnetic Whiteboard• Classroom whiteboard• Dry erase marker• Pencil (per Level 2 and 3 student)• Calculator (per Level 2 and 3 student)
Segment:	2: Math Momentum 2
Procedure:	<ol style="list-style-type: none">1. Review core vocabulary using the leveled instruction in Core Vocabulary and Concepts.2. Provide math instruction as outlined in the Concept Building Section, including Independent Practice.
TL Technology Lesson(s):	<ul style="list-style-type: none">• Comparing the Slope of Two Lines Lv 1, 2, and 3

DAY 5

Objectives:	<ul style="list-style-type: none">• Select an exponential function to represent two quantities from a graph or a table of values.
Materials:	<ul style="list-style-type: none">• <i>Unit 83 Lesson 1 MTH Warm-Up Worksheet 3 Lv 1</i> (per Level 1 student)• <i>Unit 83 Lesson 1 MTH Warm-Up Worksheet 3 Lv 2</i> (per Level 2 student)• <i>Unit 83 Lesson 1 MTH Warm-Up Worksheet 3 Lv 3</i> (per Level 3 student)• <i>Unit 83 Lesson 1 MTH Exponential Functions on a Graph Worksheet Lv 2</i> (per Level 2 student)• <i>Unit 83 Lesson 1 MTH Exponential Functions on a Graph Worksheet Lv 3</i> (per Level 3 student)• <i>Classroom Resources Coordinate Plane with Axes and Numbers (-10 to 10) Worksheet</i>• <i>Classroom Resources Number Cards Worksheet</i>• <i>Classroom Resources Scratch Paper Worksheet</i> (per Level 2 and 3 student)• Magnetic Whiteboard• Magnetic Numbers• Magnetic Picture Pockets• Large Dry Erase Pockets• Classroom whiteboard• Dry erase marker• Calculator (per student)• Pencil (per Level 2 and 3 student)
Segment:	3: Math Foundations I
Procedure:	<ol style="list-style-type: none">1. Deliver the Anchor Instruction.2. Then, have students complete the Math Warm-Up activity.3. Next, introduce core vocabulary using the leveled instruction in Core Vocabulary and Concepts.4. Provide math instruction as outlined in the Concept Building Section through the Guided Practice.
TL Technology Lesson(s):	<ul style="list-style-type: none">• Exponential Functions Lv 1, 2, and 3

DAY 6

Objectives:	<ul style="list-style-type: none">• Select an exponential function to represent two quantities from a graph or a table of values.
Materials:	<ul style="list-style-type: none">• <i>Unit 83 Lesson 1 MTH Exponential Functions on a Graph Worksheet Lv 2</i> (per Level 2 student)• <i>Unit 83 Lesson 1 MTH Exponential Functions on a Graph Worksheet Lv 3</i> (per Level 3 student)• <i>Classroom Resources Coordinate Plane with Axes and Numbers (-10 to 10) Worksheet</i>• <i>Classroom Resources Number Cards Worksheet</i>• <i>Classroom Resources Scratch Paper Worksheet</i> (per Level 2 and 3 student)• Magnetic Whiteboard• Magnetic Numbers• Magnetic Picture Pockets• Large Dry Erase Pockets• Classroom whiteboard• Dry erase marker• Calculator (per student)• Pencil (per Level 2 and 3 student)
Segment:	3: Math Foundations I
Procedure:	<ol style="list-style-type: none">1. Review core vocabulary using the leveled instruction in Core Vocabulary and Concepts.2. Provide math instruction as outlined in the Concept Building Section, including Independent Practice.
TL Technology Lesson(s):	<ul style="list-style-type: none">• Exponential Functions Lv 1, 2, and 3

DAY 7

Objectives:	<ul style="list-style-type: none">Given an expression or equation representing an exponential function, reveal the constant percent rate of change per unit interval using the properties of exponents.
Materials:	<ul style="list-style-type: none">Unit 83 Lesson 1 MTH Warm-Up Worksheet 4 Lv 1 (per Level 1 student)Unit 83 Lesson 1 MTH Warm-Up Worksheet 4 Lv 2 (per Level 2 student)Unit 83 Lesson 1 MTH Warm-Up Worksheet 4 Lv 3 (per Level 3 student)Unit 83 Lesson 1 MTH Percent Rate of Change Worksheet Lv 2 (per Level 2 student)Unit 83 Lesson 1 MTH Percent Rate of Change Worksheet Lv 3 (per Level 3 student)Classroom Resources Coordinate Plane with Axes and Numbers (-10 to 10) WorksheetClassroom Resources Number Cards WorksheetClassroom Resources Scratch Paper Worksheet (per Level 2 and 3 student)Magnetic WhiteboardMagnetic Picture PocketsLarge Dry Erase PocketsClassroom whiteboardDry erase markerCalculator (per Level 2 and 3 student)Pencil (per Level 2 and 3 student)
Segment:	4: Math Foundations II
Procedure:	<ol style="list-style-type: none">Deliver the Anchor Instruction.Then, have students complete the Math Warm-Up activity.Next, introduce core vocabulary using the leveled instruction in Core Vocabulary and Concepts.Provide math instruction as outlined in the Concept Building Section through the Guided Practice.
TL Technology Lesson(s):	<ul style="list-style-type: none">None

DAY 8

Objectives:	<ul style="list-style-type: none">Given an expression or equation representing an exponential function, reveal the constant percent rate of change per unit interval using the properties of exponents.
Materials:	<ul style="list-style-type: none"><i>Unit 83 Lesson 1 MTH Percent Rate of Change Worksheet Lv 2</i> (per Level 2 student)<i>Unit 83 Lesson 1 MTH Percent Rate of Change Worksheet Lv 3</i> (per Level 3 student)<i>Classroom Resources Coordinate Plane with Axes and Numbers (-10 to 10) Worksheet</i><i>Classroom Resources Number Cards Worksheet</i><i>Classroom Resources Scratch Paper Worksheet</i> (per Level 2 and 3 student)Magnetic WhiteboardMagnetic Picture PocketsLarge Dry Erase PocketsClassroom whiteboardDry erase markerCalculator (per Level 2 and 3 student)Pencil (per Level 2 and 3 student)
Segment:	4: Math Foundations II
Procedure:	<ol style="list-style-type: none">Review core vocabulary using the leveled instruction in Core Vocabulary and Concepts.Provide math instruction as outlined in the Concept Building Section, including Independent Practice.
TL Technology Lesson(s):	<ul style="list-style-type: none">None

DAY 9

Objectives:	<ul style="list-style-type: none">Given a table, equation, or written description of an exponential function, select the graph that represents the function.
Materials:	<ul style="list-style-type: none"><i>Unit 83 Lesson 1 MTH Warm-Up Worksheet 5 Lv 1</i> (per Level 1 student)<i>Unit 83 Lesson 1 MTH Warm-Up Worksheet 5 Lv 2</i> (per Level 2 student)<i>Unit 83 Lesson 1 MTH Warm-Up Worksheet 5 Lv 3</i> (per Level 3 student)<i>Unit 83 Lesson 1 MTH Matching Exponential Functions to a Graph Worksheet Lv 2</i> (per Level 2 student)<i>Unit 83 Lesson 1 MTH Matching Exponential Functions to a Graph Worksheet Lv 3</i> (per Level 3 student)<i>Classroom Resources Coordinate Plane with Axes and Numbers (-10 to 10) Worksheet</i><i>Classroom Resources Number Cards Worksheet</i><i>Classroom Resources Scratch Paper Worksheet</i> (per Level 2 and 3 student)Magnetic WhiteboardLarge Dry Erase PocketsClassroom whiteboardDry erase marker (two colors)Calculator (per Level 2 and 3 student)Pencil (per Level 2 and 3 student)
Segment:	5: Math Exploration
Procedure:	<ol style="list-style-type: none">Deliver the Anchor Instruction.Then, have students complete the Math Warm-Up activity.Next, introduce core vocabulary using the leveled instruction in Core Vocabulary and Concepts.Provide math instruction as outlined in the Concept Building Section through the Guided Practice.
TL Technology Lesson(s):	<ul style="list-style-type: none">Graphing Exponential Functions Lv 1, 2, and 3

DAY 10

Objectives:	<ul style="list-style-type: none">Given a table, equation, or written description of an exponential function, select the graph that represents the function.
Materials:	<ul style="list-style-type: none"><i>Unit 83 Lesson 1 MTH</i> Matching Exponential Functions to a Graph Worksheet Lv 2 (per Level 2 student)<i>Unit 83 Lesson 1 MTH</i> Matching Exponential Functions to a Graph Worksheet Lv 3 (per Level 3 student)<i>Classroom Resources</i> Coordinate Plane with Axes and Numbers (-10 to 10) Worksheet<i>Classroom Resources</i> Number Cards Worksheet<i>Classroom Resources</i> Scratch Paper Worksheet (per Level 2 and 3 student)Magnetic WhiteboardLarge Dry Erase PocketsClassroom whiteboardDry erase marker (two colors)Calculator (per Level 2 and 3 student)Pencil (per Level 2 and 3 student)
Segment:	5: Math Exploration
Procedure:	<ol style="list-style-type: none">Review core vocabulary using the leveled instruction in Core Vocabulary and Concepts.Provide math instruction as outlined in the Concept Building Section, including Independent Practice.Math for Life: Generalization and Extension Activities (complete any or all of the activities).Administer any unmastered Teacher-led technology lessons.
TL Technology Lesson(s):	<ul style="list-style-type: none">Function or Nonfunction Lv 1, 2, and 3Comparing the Slope of Two Lines Lv 1, 2, and 3Exponential Functions Lv 1, 2, and 3Graphing Exponential Functions Lv 1, 2, and 3