Evidence of MTRs, EEs and ELDs

Algebra 1, Amplify Desmos Math Florida, Algebra 1

Lesson	Benchmark of Focus	Connecting Benchmark(s)	Integrated MTRs within Student Materials and Teacher Guides
Unit 1, Lesson 13: Tick Tock - In this lesson, students use inequality statements and graphs to describe real-world behavior of sleep.	MA.912.AR.2.6		MA.K12.MTR.1.1, MA.K12.MTR.2.1, MA.K12.MTR.4.1, MA.K12.MTR.6.1
Unit 2, Lesson 8: How Big? - In this lesson, students use results from a survey and proportional reasoning to estimate populations in real world contexts such as the total number of students in a school.	MA.912.DP.1.4		MA.K12.MTR.4.1, MA.K12.MTR.5.1, MA.K12.MTR.7.1
Unit 3, Lesson 4: Toy Factory - In this lesson, students use linear functions to determine the price of a pizza as a function of the number of toppings ordered and other real world contexts.	MA.912.F.1.2	MA.912.AR.2.2	MA.K12.MTR.3.1, MA.K12.MTR.4.1, MA.K12.MTR.5.1

Unit 4, Lesson 2: Process of Elimination - In this lesson, students analyze visuals of student work examples for solving systems of equations by elimination.	MA.912.AR.9.1		MA.K12.MTR.2.1, MA.K12.MTR.3.1, MA.K12.MTR.6.1, MA.K12.MTR.7.1
Unit 5, Lesson 13: Payday Loan - In this lesson, students analyze exponential functions that represent different compound interest scenarios through payday loans and credit card offers.	MA.912.FL.3.2	MA.912.NSO.1.1, , MA.912.NSO.1.2, MA.912.FL.3.4	MA.K12.MTR.2.1, MA.K12.MTR.4.1, MA.K12.MTR.5.1, MA.K12.MTR.6.1, MA.K12.MTR.7.1
Unit 6, Lesson 11: Break Through: Parabolas - In this lesson, students write quadratic equations in factored form to "break the targets" at the intercepts of a parabola within the context of a video game scenario.	MA.912.AR.3.4	MA.912.AR.3.5, MA.912.AR.3.6, MA.912.AR.3.7, MA.912.F.2.1	MA.K12.MTR.1.1, MA.K12.MTR.5.1, MA.K12.MTR.6.1, MA.K12.MTR.7.1
Unit 7, Lesson 4: X-Factor - In this lesson, students express quadratic expressions in different forms (area model diagram, standard form, factored form) in a puzzle activity. They extend their understanding of finding factors of linear expressions using an area model/diagram to factor quadratic expressions.	MA.912.AR.1.7	MA.912.NSO.1.1, MA.912.NSO.1.2,	MA.K12.MTR.2.1, MA.K12.MTR.3.1, MA.K12.MTR.5.1, MA.K12.MTR.6.1

Unit 1, Lesson 3: Same Position - In this lesson, students solve linear equations to determine when vehicles will meet on the same road.	MA.912.AR.2.1	MA.8.AR.2.1	MA.K12.MTR.1.1, MA.K12.MTR.4.1, MA.K12.MTR.5.1
Unit 2, Lesson 13: Connecting the Dots - In this lesson, students identify trends and analyze relationships between speed and reaction time of different animals using line graphs, as well as other real world contexts.	MA.912.DP.1.2	MA.912.DP.1.1	MA.K12.MTR.1.1, MA.K12.MTR.3.1, MA.K12.MTR.6.1
Unit 3, Lesson 5: Function Carnival - In this lesson, students create and analyze graphs that represent distance and time relationships of different carnival rides.	MA.912.F.1.6	MA.912.F.1.2	MA.K12.MTR.2.1, MA.K12.MTR.4.1, MA.K12.MTR.6.1, MA.K12.MTR.7.1

Lesson	Benchmark of Focus	Connecting Benchmark(s)	Integrated EEs within Student Materials and Teacher Guides
Unit 1, Lesson 8: Whale Growth Rate - In this lesson, students use equations in a real-world context as they compare the growth rates of various whales species.	MA.912.AR.2.3		ELA.K12.EE.1.1, ELA.K12.EE.3.1, ELA.K12.EE.4.1, ELA.K12.EE.6.1
Unit 2, Lesson 5: Quick Pick - In this lesson, students explore how extreme values impact the mean and median of a data set in real world contexts such as test scores and number of points scored in a game.	MA.912.DP.1.2		ELA.K12.EE.1.1, ELA.K12.EE.3.1, ELA.K12.EE.6.1
Unit 3, Lesson 1: Mystery Rule - In this lesson, students use a machine model to explore input and output behavior of functions.	MA.912.F.1.1		ELA.K12.EE.1.1, ELA.K12.EE.4.1, ELA.K12.EE.5.1, ELA.K12.EE.6.1

Unit 4, Lesson 2: Process of Elimination - In this lesson, students analyze visuals of student work examples for solving systems of equations by elimination.	MA.912.AR.9.1		ELA.K12.EE.4.1, ELA.K12.EE.5.1
Unit 5, Lesson 15: Exploring Interest - In this lesson, students compare the relationships between different types of interest and different types of functions through simple interest savings accounts.	MA.912.FL.3.4		ELA.K12.EE.1.1, ELA.K12.EE.2.1, ELA.K12.EE.4.1
Unit 6, Lesson 2: Quadratic Visual Patterns - In this lesson, students relate visual models of quadratic relationships to equivalent algebraic expressions.	MA.912.F.1.8		ELA.K12.EE.1.1, ELA.K12.EE.3.1, ELA.K12.EE.4.1
Unit 7, Lesson 16: Formula Foundations - In this lesson, students apply their understanding of completing the square to derive the quadratic formula through a series of guided activities. They build an understanding and appreciation for formulas as a tool for efficient problem solving.	MA.912.AR.1.2	MA.912.NSO.1.4, MA.912.AR.3.1	ELA.K12.EE.2.1, ELA.K12.EE.3.1, ELA.K12.EE.5.1

Unit 1, Lesson 3: Same Position - In this lesson, students solve linear equations to determine when vehicles will meet on the same road.	MA.912.AR.2.1	MA.8.AR.2.1	ELA.K12.EE.1.1, ELA.K12.EE.5.1, ELA.K12.EE.6.1
Unit 5, Lesson 13: Payday Loan - In this lesson, students analyze exponential functions that represent different compound interest scenarios through payday loans and credit card offers.	MA.912.FL.3.2	MA.912.NSO.1.1, , MA.912.NSO.1.2, MA.912.FL.3.4	ELA.K12.EE.1.1, ELA.K12.EE.2.1
Unit 6, Lesson 11: Break Through: Parabolas - In this lesson, students write quadratic equations in factored form to "break the targets" at the intercepts of a parabola within the context of a video game scenario.	MA.912.AR.3.4	MA.912.AR.3.5, MA.912.AR.3.6, MA.912.AR.3.7, MA.912.F.2.1	ELA.K12.EE.3.1, ELA.K12.EE.5.1

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Unit 1, Lesson 8: Whale Growth Rate - In this lesson, students use equations in a real-world context as they compare the growth rates of various whales species.	MA.912.AR.2.3		ELD.K12.ELL.MA.1, ELD.K12.ELL.SI.1
Unit 2, Lesson 8: How Big? - In this lesson, students use results from a survey and proportional reasoning to estimate populations in real world contexts such as the total number of students in a school.	MA.912.DP.1.4		ELD.K12.ELL.MA.1, ELD.K12.ELL.SI.1
Unit 3, Lesson 4: Toy Factory - In this lesson, students use linear functions to determine the price of a pizza as a function of the number of toppings ordered and other real world contexts.	MA.912.F.1.2	MA.912.AR.2.2	ELD.K12.ELL.MA.1, ELD.K12.ELL.SI.1

Unit 4, Lesson 2: Process of Elimination - In this lesson, students analyze visuals of student work examples for solving systems of equations by elimination.	MA.912.AR.9.1		ELD.K12.ELL.MA.1, ELD.K12.ELL.SI.1
Unit 5, Lesson 15: Exploring Interest - In this lesson, students compare the relationships between different types of interest and different types of functions through simple interest savings accounts.	MA.912.FL.3.4		ELD.K12.ELL.MA.1, ELD.K12.ELL.SI.1
Unit 6, Lesson 11: Break Through: Parabolas - In this lesson, students write quadratic equations in factored form to "break the targets" at the intercepts of a parabola within the context of a video game scenario.	MA.912.AR.3.4	MA.912.AR.3.5, MA.912.AR.3.6, MA.912.AR.3.7, MA.912.F.2.1	ELD.K12.ELL.MA.1, ELD.K12.ELL.SI.1
Unit 7, Lesson 4: X-Factor - In this lesson, students express quadratic expressions in different forms (area model diagram, standard form, factored form) in a puzzle activity. They extend their understanding of finding factors of linear expressions using an area model/diagram to factor quadratic expressions.	MA.912.AR.1.7	MA.912.NSO.1.1, MA.912.NSO.1.2,	ELD.K12.ELL.MA.1, ELD.K12.ELL.SI.1

Unit 1, Lesson 3: Same Position - In this lesson, students solve linear equations to determine when vehicles will meet on the same road.	MA.912.AR.2.1	MA.8.AR.2.1	ELD.K12.ELL.MA.1, ELD.K12.ELL.SI.1
Unit 2, Lesson 5: Quick Pick - In this lesson, students explore how extreme values impact the mean and median of a data set in real world contexts such as test scores and number of points scored in a game.	MA.912.DP.1.2		ELD.K12.ELL.MA.1, ELD.K12.ELL.SI.1