

2017-2018 Downey Unified School District Kindergarten Math Curriculum Map

Time	Unit & Standards	Big Ideas	Essential Questions	Resources	Assessments	Routines and Activities List of Routines
10 days (1st Tri.)	1: Playing with and Reasoning About Shapes K.G.1 K.G.2 K.MD.3	<ul style="list-style-type: none"> ● Identifying shapes (square, circle, triangle, rectangle, hexagon) ● Positional words ● Sorting/Classifying 	<ul style="list-style-type: none"> ● What are the different shapes you see in our world? ● How are the 5 basic shapes the same and different? ● What are some different ways we can sort objects? Why did we choose to sort them that way? ● How can we describe objects in our environment using the names of shapes and the relative positions of these objects using words such as above, below, beside, in front of, behind and next to? 	<p>Expressions</p> <ul style="list-style-type: none"> ● Unit 1, Lessons 8, 10, 18 ● Unit 2, Lessons 13, 17, 20 ● Unit 3, Lessons 10, 12, 21 ● Unit 4, Lessons 1, 9, 14, 21, 22 <p>Additional Resources</p> <ul style="list-style-type: none"> ● songs (videos on youtube) ● Shape books ● Sesamestreet.org ● abcya.com ● Kinder CCSS Flipbook 	<ul style="list-style-type: none"> ● Teacher shows students shapes, student names them (check off sheet) 	<ul style="list-style-type: none"> ● Shape of the Day ● Shape song ● Shape sort ● Circle maps/Anchor Charts ● Mystery bag (what shape are you holding -describe without looking by using characteristics they feel) ● Find shapes in room ● Word problems (See examples from Kindergarten Word Problems in Google Drive) ● One of These Things/Which One Doesn't Belong <p>Apps</p> <p>*Guided:</p> <ul style="list-style-type: none"> ● Pattern shapes ● Geoboard ● Number Pieces ● Pieces Basic ● Number Line ● See "Additional Apps" <p>*Independent:</p> <ul style="list-style-type: none"> ● Dragon Shapes ● Moose Math ● Park Math HD ● Fish Math HD ● Starfall ● Monkey Math ● Teach Me: Kindergarten

2017-2018 Downey Unified School District Kindergarten Math Curriculum Map

Time	Unit & Standards	Big Ideas	Essential Questions	Resources	Assessments	Routines and Activities List of Routines
20 days (1st Tri.)	2: Numbers to 5 K.CC.1 K.CC.2 K.CC.3 K.CC.4 K.CC.5 K.CC.6 K.OA.1 K.OA.2 K.OA.3	<ul style="list-style-type: none"> Identify, count, show, compose/ decompose, compare, write, add/subtract numbers to 5 	<ul style="list-style-type: none"> What are numbers? Why do we count? How do we count? How does counting help us in our everyday lives? How should I organize my counting? How can we compare numbers and sets of objects? What happens when we combine groups or take them apart? 	Expressions <ul style="list-style-type: none"> Unit 1, Lessons 1-7,9 Additional Resources <ul style="list-style-type: none"> Sesamestreet.org abcya.com Kinder CCSS Flipbook Children’s Mathematics Book Number Sense Routines Book Young Children’s Mathematics 	<ul style="list-style-type: none"> Unit 2 Operations & Algebraic Thinking Assessments (JRU, SRU & Both Addends Unknown story problems) Check off sheet <ul style="list-style-type: none"> write to 5 Show me up to 5 ID to 5 Oral Counting Count and write number <hr/> Teacher Reflection questions: <p>Are your students beginning to explain the strategies they are using clearly to you and with other students?</p> <p>How are your routines helping students begin to deepen their number knowledge?</p> <p>How are you questioning/leading your students so they will organize their counting in an efficient way to achieve accuracy?</p>	<ul style="list-style-type: none"> Quick Images (dot cards) 1 to 1 counting Salt trays - write number with your finger in salt/sand Simple word problems Comparing Identifying Writing Number of the Day/Anchor Charts Shake it Up (2 sided-red/yellow counters in a cup) Decompose on fingers How many are hiding? Tens Frames Word problems (See Kindergarten Word Problems in Google Drive) <p>Apps</p> <p>*Guided:</p> <ul style="list-style-type: none"> Number Frames Ten Frame Fill Counting board Hands-on Math Number Pieces Pieces Basic Number Line Number Rack Todo Mat App Endless Numbers App Number Quiz App See “Additional Apps” <p>*Independent:</p> <ul style="list-style-type: none"> Moose Math Park Math HD Fish Math HD Starfall Monkey Math Teach Me: Kindergarten

2017-2018 Downey Unified School District Kindergarten Math Curriculum Map

Time	Unit & Standards	Big Ideas	Essential Questions	Resources	Assessments	Routines and Activities List of Routines
20 days (1st Tri.)	3: Numbers to 10 K.CC.1 K.CC.2 K.CC.3 K.CC.4 K.CC.5 K.CC.6 K.CC.7 K.OA.1 K.OA.2 K.OA.3 K.OA.4	<ul style="list-style-type: none"> Identify, count, show, compose/ decompose, compare, write, add/subtract numbers to 10 	<ul style="list-style-type: none"> How does counting help us in our everyday lives? How should I organize my counting? How can we compare numbers and sets of objects? What happens when we combine groups or take them apart? What are some different ways we can make or represent the number 10? How can we represent our information so that it is understandable to others? How can we decompose a number to make it easier to work with? 	<p>Expressions</p> <ul style="list-style-type: none"> Unit 1, Lessons 11-17 Unit 2, Lessons 1-12, 14-16,18-20 Unit 3, Lessons 1,2,6,8,10,11,13 <p>Additional Resources</p> <ul style="list-style-type: none"> Sesamestreet.org abcya.com Kinder CCSS Flipbook Number Sense Routines Book Young Children’s Mathematics Book Children’s Mathematics Book 	<ul style="list-style-type: none"> Unit 3 Operations & Algebraic Thinking Assessments (JRU, SRU, and Both Addends Unknown story problems to 10) Check off sheet <ul style="list-style-type: none"> Show me up to 10 ID to 6-10 Count and write number Compare sets Compare numerals Oral Counting <hr/> <p>Teacher Reflection questions:</p> <p>Are your students beginning to explain the strategies they are using clearly to you and with other students?</p> <p>How are your routines helping students begin to deepen their number knowledge?</p> <p>How are you questioning/leading your students so they will organize their counting in an efficient way to achieve accuracy?</p> <p>Are you exposing your students to a variety of tools to help them solve problems and make meaning?</p>	<ul style="list-style-type: none"> Quick Images 1 to 1 Counting Counting Collections Salt Trays Comparing Identifying Writing Number of the Day/Anchor Charts Shake it Up (2 sided-red/yellow counters in a cup) Decompose on fingers How Many are Hiding? Tens Frames Word problems (See Kindergarten Word Problems in Google Drive) <p>Apps:</p> <p>*Guided:</p> <ul style="list-style-type: none"> Number Frames Ten Frame Fill Counting Board Hands on Math Number Pieces Pieces Basic Number Line Number Rack Math Word Problems App Todo Math App Number Quiz App See “Additional Apps” <p>*Independent:</p> <ul style="list-style-type: none"> Moose Math Park Math HD Fish Math HD Starfall Monkey Math Teach Me: Kindergarten

2017-2018 Downey Unified School District Kindergarten Math Curriculum Map

Time	Unit & Standards	Big Ideas	Essential Questions	Resources	Assessments	Routines and Activities List of Routines
10 days (2nd Tri.)	4: Describing and Composing 2D Shapes K.G.1 K.G.2 K.G.4 K.G.5 K.G.5 K.G.6 K.MD.3	<ul style="list-style-type: none"> ● Composing 2D shapes ● Drawing Shapes ● Comparing Shapes ● Build Shapes 	<ul style="list-style-type: none"> ● How can shapes be put together or taken apart to make new shapes? ● What attributes are important for naming shapes? 	<p>Expressions</p> <ul style="list-style-type: none"> ● Unit 1 Lessons 8, 10, 18 ● Unit 2 Lessons 13, 17, 20 ● Unit 3 Lessons 9, 10, 12, 21 ● Unit 4 Lessons 1, 9, 14, 21, 22 <p>Additional Resources</p> <ul style="list-style-type: none"> ● Songs (on youtube) ● Shape Books ● Sesamestreet.org ● abcya.com ● Kinder CCSS Flipbook 	<ul style="list-style-type: none"> ● Teacher observation only (no checkoff sheet) 	<ul style="list-style-type: none"> ● Tangram activities ● Building shapes with popsicle sticks ● Building/Sorting foam shapes ● Drawing Shapes ● Anchor Chart of number of sides, vertices ● Word problems (See Kindergarten Word Problems in Google Drive) <p>Apps</p> <p>*Guided:</p> <ul style="list-style-type: none"> ● Pattern shapes ● Geoboard ● Number Pieces ● Pieces Basic ● Number Line ● See "Additional Apps" <p>*Independent:</p> <ul style="list-style-type: none"> ● Dragon Shapes ● Moose Math ● Park Math HD ● Fish Math HD ● Starfall ● Monkey Math ● Teach Me: Kindergarten

2017-2018 Downey Unified School District Kindergarten Math Curriculum Map

Time	Unit & Standards	Big Ideas	Essential Questions	Resources	Assessments	Routines and Activities List of Routines
20 days (2nd Tri.)	5: Numbers to 20 K.CC.1 K.CC.2 K.CC.3 K.CC.4 K.CC.5 K.CC.6 K.OA.1 K.OA.2	<ul style="list-style-type: none"> Identify, count, show, compare, write numbers to 20 	<ul style="list-style-type: none"> How does counting help us in our everyday lives? How should I organize my counting? How can we compare numbers and sets of objects? What happens when we combine groups or take them apart? What are some different ways we can make or represent the number 20? How can we represent our information so that it is understandable to others? 	<p>Expressions</p> <ul style="list-style-type: none"> Unit 3-Lessons 2, 5, 6, 8, 13, 15, 18, 19 & 20 Unit 4-Lessons 3, 5, 7, 12, 16, 18, & 20 Unit 5-Lessons 1, 3, 4, 5, 6, 7, 9, 10, 11, 15, 18, 19 & 20 <p>Additional Resources</p> <ul style="list-style-type: none"> Sesamestreet.org abcya.com Kinder CCSS Flipbook Songs (on youtube) Harry Kindergarten Math (you tube) It Makes Sense! Using the 100s Chart Book Number Sense Routines Book Young Children’s Mathematics Book Children’s Mathematics Book 	<ul style="list-style-type: none"> Writing to 20 Check off sheet <ul style="list-style-type: none"> Show me up to 20 ID to 11-20 Count and write number Oral counting <hr/> <p>Teacher Reflection questions:</p> <p>How are you questioning/leading your students so they will organize their work in an efficient way?</p> <p>Are you providing adequate time for student discussion of different problem solving strategies?</p> <p>Are your students restating what other students have said?</p> <p>Are you exposing your students to a variety of tools to solve problems and make meaning?</p> <p>Are your students beginning to make more sense of problems and persevering in solving them?</p> <p>Are your students using tools appropriately to solve problems?</p> <p>Are your students attending to precision?</p>	<ul style="list-style-type: none"> Quick Images Word problems (See Kindergarten Word Problems in Google Drive) Counting Collections Number of the Day/Anchor Chart Identify/Write numbers Shake it Up How Many are Hiding? Count on from given number Tens Frames Comparing <p>Apps:</p> <p>*Guided:</p> <ul style="list-style-type: none"> Number Frames Counting Board Ten Frame Fill Hands-on Math Number Pieces Pieces Basic Number Line Number Rack See “Additional Apps” <p>*Independent:</p> <ul style="list-style-type: none"> Math Word Problems Moose Math Park Math HD Fish Math HD Starfall Teach Me: Kindergarten Monkey Math

2017-2018 Downey Unified School District Kindergarten Math Curriculum Map

Time	Unit & Standards	Big Ideas	Essential Questions	Resources	Assessments	Routines and Activities List of Routines
20 days (2nd Tri.)	6: Decomposing and Composing Numbers to 20 K.CC.1 K.CC.2 K.CC.3 K.CC.4 K.CC.5 K.CC.6 K.OA.1 K.OA.2 K.NBT.1	<ul style="list-style-type: none"> Compose and Decompose Numbers to 20 	<ul style="list-style-type: none"> Why do we break numbers apart into tens and ones? How can we decompose a number to make it easier to work with? (Refer to Unit 5's Essential Questions) 	<p>Expressions</p> <ul style="list-style-type: none"> Unit 3-Lessons 2, 5, 6, 8, 13, 15, 18, 19 & 20 Unit 4-Lessons 3, 5, 7, 12, 16, 18, & 20 Unit 5-Lessons 1, 3, 4, 5, 6, 7, 9, 10, 11, 15, 18, 19 & 20 <p>Additional Resources</p> <ul style="list-style-type: none"> Kinder CCSS Flipbook Songs (on youtube) It Makes Sense! Using the Hundreds Chart Book Number Sense Routines Book Children's Mathematics Book Young Children's Mathematics 	<ul style="list-style-type: none"> Unit 6 Operations & Algebraic Thinking Assessments (PPW-WU, SRU, and Both Addends Unknown story problems to 20) Check-off Sheet <ul style="list-style-type: none"> o Compose/Decompose <hr/> <p>Teacher Reflection questions:</p> <p>How are you questioning/leading your students so they will organize their work in an efficient way?</p> <p>Are you providing adequate time for student discussion of different problem solving strategies?</p> <p>Are your students restating what other students have said?</p> <p>Are you exposing your students to a variety of tools to solve problems and make meaning?</p> <p>Are your students beginning to make more sense of problems and persevering in solving them?</p> <p>Are your students using tools appropriately to solve problems?</p> <p>Are your students attending to precision?</p>	<ul style="list-style-type: none"> Quick Images Word problems (See Kindergarten Word Problems in Google Drive) Counting Collections Base 10 blocks Place Value Tens Frames <p>Apps:</p> <p>*Guided:</p> <ul style="list-style-type: none"> Number Frames Number Pieces Pieces Basic Number Line Counting Board Hands-on Math Number Rack See "Additional Apps" <p>*Independent:</p> <ul style="list-style-type: none"> Math Word Problems Moose Math Park Math HD Fish Math HD Starfall Teach Me: Kindergarten Monkey Math

2017-2018 Downey Unified School District Kindergarten Math Curriculum Map

Time	Unit & Standards	Big Ideas	Essential Questions	Resources	Assessments	Routines and Activities List of Routines
10 days (3rd Tri.)	7: 3D Shapes K.G.1 K.G.2 K.G.3 K.G.4 K.G.5 K.G.6 K.MD.3	<ul style="list-style-type: none"> Build and identify 3D shapes - cube, cone, cylinder, and sphere 	<ul style="list-style-type: none"> What is the difference between a 2D Shape and a 3D Shape? What attributes does each 3D Shape have? (How many sides/faces/corners? Can it roll or slide?) 	<p>Expressions</p> <ul style="list-style-type: none"> Unit 3, Lessons 9, 21 Unit 4, Lessons 9, 14, 21, and 22 <p>Additional Resources</p> <ul style="list-style-type: none"> Kinder CCSS Flipbook starfall.com Songs (on youtube) <ul style="list-style-type: none"> -Singing Walrus 3D Shapes -Harry Kindergartener 3D Shapes 	<ul style="list-style-type: none"> Check off sheet <ul style="list-style-type: none"> o Shapes 	<ul style="list-style-type: none"> Sorting Shapes (Including 2D vs. 3D) Shape of the Day Anchor Chart Count and Compare sides/vertices Building Shapes with toothpicks/clay Mystery Bag Word problems (See Kindergarten Word Problems in Google Drive) <p>Apps:</p> <p>*Guided:</p> <ul style="list-style-type: none"> See "Additional Apps" <p>*Independent:</p> <ul style="list-style-type: none"> Starfall Monkey Math Starfall Teach Me: Kindergarten

2017-2018 Downey Unified School District Kindergarten Math Curriculum Map

Time	Unit & Standards	Big Ideas	Essential Questions	Resources	Assessments	Routines and Activities List of Routines
30 days (3rd Tri.)	8: Numbers to 100 K.CC.1 K.CC.2 K.CC.3 K.CC.4 K.CC.5 K.CC.6 K.OA.1 K.OA.2 K.OA.3 K.OA.4 K.OA.5 K.NBT.1	<ul style="list-style-type: none"> Number Sense to 100 	<ul style="list-style-type: none"> How can counting forward from a given number help us solve problems in a more efficient way? How can we count to 100 more efficiently than counting by 1s? What are all the different ways to represent a specific given number? 	<p>Expressions</p> <ul style="list-style-type: none"> Unit 5, Lessons 5, 8 (HW), 13 <p>Additional Resources</p> <ul style="list-style-type: none"> Kinder CCSS Flipbook Dr. Jean's 100 Macarena Dance It Makes Sense On a Hundreds Chart Book Number Sense Routines Book Young Children's Mathematics Book Children's Mathematics Book 	<ul style="list-style-type: none"> Unit 8 Operations & Algebraic Thinking Assessments (PPW-WU, JRU, and SRU story problems above 20) Check off sheet <ul style="list-style-type: none"> Counting by 1s and by 10s Counting on Fluency to 5 in addition and subtraction <hr/> <p>Teacher Reflection questions:</p> <p>Are you choosing numbers that will continue to deepen your students' knowledge of tens and ones when planning your word problems?</p> <p>Are you providing adequate time for student discussion of different problem solving strategies?</p> <p>Are students beginning to build upon other students' thinking and beginning to deepen their reasoning skills?</p> <p>Are your students beginning to construct viable arguments and critique the reasoning of others?</p> <p>Are your students able to solve the problem in more than one way?</p> <p>Are you looking at your children's problem solving strategies and using that knowledge to plan your instruction?</p>	<ul style="list-style-type: none"> Counting collections Word problems (See Kindergarten Word Problems in Google Drive) 100 chart activities (see book) Fluency practice Choral counting (number patterns) Counting on Tens Frames Base Ten Blocks <p>Apps:</p> <p>*Guided:</p> <ul style="list-style-type: none"> Hands-On Math Counting Board Number Frames Number Pieces Pieces Basic Number Line Number Rack See "Additional Apps" <p>*Independent:</p> <ul style="list-style-type: none"> Math Word Problems Moose Math Park Math HD Fish Math HD Monkey Math Starfall Teach Me: Kindergarten

2017-2018 Downey Unified School District Kindergarten Math Curriculum Map

Time	Unit & Standards	Big Ideas	Essential Questions	Resources	Assessments	Routines and Activities List of Routines
10 days (3rd Tri.)	9: Length, Weight, and Capacity (Measurable Attributes) K.MD.1 K.MD.2 K.MD.3	<ul style="list-style-type: none"> Comparing and describing length, weight and capacity 	<ul style="list-style-type: none"> How do we know if one object is really bigger/longer/shorter/taller/lighter or heavier than another? How can we describe an object using one or more measurable attributes? What types of units should we use to measure? 	<p>Expressions</p> <ul style="list-style-type: none"> Unit 1 Lesson 10 Unit 2 Lessons 13,17, 20 Unit 3 Lessons 10, 12, 21 Unit 4 Lessons 1, 9, 22 Unit 5 Lessons 21,22,23 <p>Additional Resources</p> <ul style="list-style-type: none"> Kinder CCSS Flipbook 	<ul style="list-style-type: none"> Teacher observation only (no checkoff sheet) 	<ul style="list-style-type: none"> Compare children as taller/shorter, objects in classroom as heavier/lighter or longer/shorter Compare objects more/less Balance scale Word problems (See Kindergarten Word Problems in Google Drive) <p>Apps:</p> <p>*Independent:</p> <ul style="list-style-type: none"> PBS KIDS Measure Up! Monkey math Starfall Teach Me: Kindergarten
						<p>Additional Apps:</p> <p>You can use the following apps to create math lessons:</p> <ul style="list-style-type: none"> Pic Kids, Popplet: make a collage or bubble map of shapes, counting collections, ways to make a number, etc. around the classroom Draw and Tell, Chatter Kid, Green Screen, Tellagami, Explain Everything, and/or Book Creator: Solve CGI problems and explain your strategies by recording your voice. Or take a picture of your counting collection and explain your strategy. Seesaw: A student-driven digital portfolio that documents what they are learning. Can be shared with their teachers, parents, and classmates. Classkick: students can work on and get help instantly from their teacher and peers. Teacher can create assignment/word problem, see all their students' work in real-time and give feedback.