

2nd Grade Draft Unit 0 Priorities Document

Overarching Big Ideas






• <i>Less is more</i>	• <i>Depth vs. breadth</i>	• <i>Relationships over everything</i>	• <i>Access for all, especially emerging bilinguals & students with disabilities</i>
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Content will come. Focusing on our kids as thinkers and doers of mathematics needs to come first. Doing so in ways that build relationships and learning norms is where I would start! - Mark Chubb - buildingmathematicians.wordpress.com/author/markchubb3/

Important manipulatives for the year for this grade? [SFUSD Recommended online Virtual Manipulatives](#)

Grade	K	1	2	3	4	5
Priority Manipulatives	2-Color Counters Geoboards Linking Cubes Pattern Blocks	2-Color Counters and Ten Frames Geoboards Pattern Blocks Base-10 Blocks	Base-10 Blocks Geoboards Pattern Blocks Hundred Chart Rulers / Meter Sticks	Base-10 Blocks Geoboards Calculators Pattern Blocks Rulers	Base-10 Blocks Geoboards Calculators Pattern Blocks Rulers	Base-10 Blocks Geoboards Calculators Centimeter Cubes Pattern Blocks
Other Manipulatives	Geometric Solids Other counters (e.g. bears) Dice Dominoes Number Card Decks Rainbow Tiles	Geometric Solids Attribute Blocks Balance Scale Dice Linking Cubes Centimeter Cubes Dominoes Number Card Decks Rainbow Tiles Instructional Clocks	Balance Scale Dice Linking Cubes Centimeter Cubes Dominoes Number Card Decks Rainbow Tiles Instructional Clocks Calculators Coins Spinners	Dice Fraction Bars Linking Cubes Number Card Decks Rainbow Tiles Instructional Clocks Meter Sticks Measuring Tape	Dice Fraction Bars Number Card Decks Rainbow Tiles Instructional Clocks Meter Sticks Measuring Tape	Rulers Fraction Bars Dice Number Card Decks Rainbow Tiles Instructional Clocks Meter Sticks Measuring Tape

Norms

Answers are important, but they are not the math. 	Talk about each other's thinking. 	Errors are gifts that promote discussion. 	Ask questions until ideas make sense. 	Use multiple strategies and multiple representations. 
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*Please see the [Draft Grade 2 Math Overview and Scope and Sequence](#) for more information

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Unit 0 - 5 lessons to be taught over 10 days -

Focus of Learning - [time per lesson, same as [listed in Spring Priorities](#)]

Throughout this unit students reflect on personal math strengths, identify and practice norms for math learning, learn classroom procedures, and establish routines for the use of supplies and manipulatives. Teachers get to know their students as mathematicians, focusing on their strengths.

[Slide Deck](#) / [Spanish](#)

		Math		Virtual Space	
	Whole Class / Group Activities	Strengths	Norms	Tools / Norms	Individual Meetings
Lesson 1	<p>Launch: Math Norms: We are a community of mathematicians / Focus norm for today</p> <p>Explore: Scavenger Hunt (e.g. measuring devices, things that come in groups, 2 and 3-D Shapes, money / price tags)</p> <p>Summarize: Math Norms / Strengths: How many different ways did we think about this problem? What did we learn from our classmates? (can be a Journal prompt / informal assessment)</p>	We learn from each other.	Answers are important but they are not the math.	Shared whiteboard - teacher scribes as students talk - the screen is the middle space	Teacher meets with each student and interviews (Spanish) them to start to learn about their math interests and strengths
Lesson 2	<p>Launch: Math Norms: We are a community of mathematicians / Focus norm for today</p> <p>Explore: Number of the Day Students represent the number 26 in as many ways as they can.</p> <p>Summarize: Math Norms / Strengths: Gallery walk - What do you notice and wonder about your classmates' representations?</p>	We are creative / we are mathematicians	Use multiple strategies and multiple representations	<p>Choose one priority manipulative from table</p> <p>Students practice toggling between Zoom (or other meeting platform) and online Manipulatives</p>	Continue student interviews; Respond to student journals
Lesson 3	<p>Launch: Math Norms: We are a community of mathematicians / Focus norm for today</p> <p>Explore: Math Talk: Re-engage with learning from the previous grade. Teacher asks questions to connect students: <i>What questions do you have</i></p>	We learn from each other	Talk about each other's thinking.	Ways to talk about each other's thinking include: Leave comments in chat or raise hand to interact in the virtual	Continue student interviews; Respond to student journals

	<p>for ____? How are these 2 representations similar or different?</p> <p>or Counting Routine or Number of the Day</p> <p>Summarize: Math Norms / Strengths: How many different ways did we think about this problem? What did we learn from our classmates? Sample Journal prompt / informal assessment: <i>Something I learned from a friend was ...</i></p>			environment. Consider highlighting an interesting or novel idea to discuss with the whole class.	
Lesson 4	<p>Launch: Math Norms: We are a community of mathematicians / Focus norm for today</p> <p>Explore: Math Tools: Students explore virtual manipulatives with guidance - e.g. the complete a task with the manipulatives</p> <p>Summarize: Math Norms / Strengths: How many different ways did we think about this problem? Sample Journal prompt / informal assessment: <i>How did (a particular mistake) help us learn?</i></p>	We are creative / we are mathematicians	Ask questions until ideas make sense.	Work with the same manipulative	Continue student interviews; Respond to student journals
Lesson 5	<p>Launch: Math Norms: We are a community of mathematicians / Focus norm for today</p> <p>Explore: Skip Counting</p> <p>Summarize: Math Norms / Strengths: Select / Sequence / Connect. Assign competence to each student as their work is shared. As students present, teacher asks: <i>What questions do you have for ____?</i> Sample Journal prompt / informal assessment: <i>Something I learned from a friend was ...</i></p>	We learn from each other	Errors are gifts.	Teacher assigns competence via Jamboard or other online platform	Continue student interviews; Respond to student journals

Other Resources	Re-engagement	Technology Recommendations	Independent Work	Games
NCTM Math Games YouCubed Week of Inspirational Maths And I'm a Mathematician Poster				

[Increasing Engagement in Remote Learning](#)

[2020-21 SFUSD Elementary Math Distance Learning Resources](#)