Learning Divisi	on	
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Learnin	
Grade: Grade 3	Subject: Math
Materials: 18 white boards, 18 markers, 18 erasers, paper, pencil,	Technology Needed: N/A
something to color with	
Instructional Strategies:	Guided Practices and Concrete Application:
Direct instruction Direct instruction Direct instruction	Large group activity Hands-on
Guided practice cooperative learning	Independent activity Technology integration
Socratic Seminar Visuals/Graphic organizers	Pairing/collaboration
Learning Centers PBL	Simulations/Scenarios
Lecture Discussion/Debate	 Other (list)
Technology integration Modeling	Explain:
Other (list)	
Standard(s)	Differentiation
3 OA 3 Using drawings and equations with a symbol for an unknown	Below Proficiency: The students that are below proficiency will
number, solve multiplication and division word problems within 100	be given additional instruction as well as be paired with a
in situations involving equal groups, arrays, and measurement	classmate of higher proficiency. This way the student can learn
quantities.	from their peer and through classroom instruction.
Objective(s) The student will illustrate division word problems within	Above Proficiency: The students that are above proficiency will
100 by creating their own word problems and drawings for equations	be allowed to do more challenging division problems. They will
with an unknown number.	also be able to do 2 word problem creations at the end of class. If
	they finish early, they can help their classmates if they have
	questions. This will help the student demonstrate their
Bloom's Taxonomy Cognitive Level: Application	understanding of division.
	Approaching/Emerging Proficiency: The students that are
	approaching proficiency will be asked to follow along in class and
	collaborate/discuss with their peers about what they are learning.
	They will receive direct instruction, guided instruction, and then
	be asked to independently illustrate a division word problem of
	their own creation.
	Modalities/Learning Preferences: This lesson is for visual, tactile,
	and auditory learners. It is planned with accommodations for
	learners who are above, below, and at proficiency. It is also
	planned with the idea in mind of students who are nonverbal and
	nave an aid. This student will be given reasonable
	accommodations in that the aid will help him in his understanding
	and writing of division problems and pictures.
Classroom Management (grouping(s) movement (transitions, etc.)	Pahaviar Expectations (systems strategies procedures specific to
Classroom Management- (grouping(s), movement/transitions, etc.) Behavior Expectations- (systems, strategies, procedures specific the students will be approach the use of the students will be approach the use of the students will be approach to studen	
collaboration. They will also be ongaged through creating and	The students are expected to behave respectfully towards their poors
practicing their division problems on the white heards. The students	and the equipment given to them. They are also expected to answer
will be grouped by being acked to partner up with the person sitting	and the equipment given to them. They are also expected to answer
beside them. For transitions the students will be sitting on the floor a	given learning equipment they are expected to use it as directed
majority of the time unless they need accommodations in which they	When working with each other the students are expected to keep on
will be in a chair or some other form of seating at this time. When	task and learn from each other. Lastly, students are to be open to
transitioning to their desks, the students will be allowed to go one at a	trying to learn the concent of in the case of angry behaviors the
time after their math fact is told to the teacher	teacher will take extra time with the student to help them or allow
	them to leave the group to calm down and return when ready. In the
	case of sad or negative behaviors the teacher will reassure the student
	and help them understand the concepts through more instruction.
Minutes Procedures	
Set-up/Prep:	
5-7 Before the lesson begins, the teacher should ensure all o	f the materials are collected and ready to go. The teacher should collect
18 white boards, markers, and erasers as well as enough	paper for each student and extras for mistakes. Each student should
have pencils or something to color with but have a few e	xtra ready just in case.
Engage: (opening activity/ anticipatory Set – access prior	learning / stimulate interest /generate questions, etc.)
To begin the lesson, the teacher will have all of the studer	ts come sit on the carpet in front of the smart board. The teacher will
then ask the students what they know about multiplicatio	n (how it is done, why we do it, how does it help us, etc.). Then ask for

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	3x4=12).	ly know. The students must raise their hand to say their fact (ex. 2x5=10,	
20-30	Explain: (concepts, procedures, vocabulary, etc.) Once the students have given a few multiplication facts tell division. Explain that division is simply reversing multiplicat 20 and divide it by one of the numbers to get the other nur well. Next, have the students practice a few division proble problem on the board such as 6/3= and see if the students multiplication and 3times what gives them six. Also encours few division problems and discuss them, and then try a wo how many apples are in each row. Have the students see if sure the students understand. Each word problem should b	them that they will now be learning the reverse of multiplication; ion problems so just how 5x4=20 we can reverse it and take the answer nber. Give some examples of how this works with other problems as ms by giving them a white board, marker, and eraser. Write a division can solve it on their white board. Encourage them to think about age them to talk to their peers about their answers as well. Practice a rd problem such as Bob has ten apples, puts his apples in rows of two, they can figure out this word problem. A few more can be tried to make be discussed and pictures can be drawn for understanding.	
20	 Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) Explain to the students that they will now be creating their own division word problems. Have them think about the math fact they want to use and when they are ready they can come up and tell you their math fact. If it is correct hand them a piece of paper and tell them to return to their desk and write a word problem for their fact. During this time, the teacher will walk around the room answering questions and helping students as they write their word problems. As the students finish writing their word problems have them draw a picture for it and color it in. 		
5	Review (wrap up and transition to next activity): To wrap up the lesson, walk around the room and ask each Next, stand at the front of the classroom and get their atter any questions. If not, tell the students that the next lesson assignment if they are done, or save it for later. Transition t for the teacher to begin.	student individually to explain their word problem and thinking to you. ntion. Ask the students what division is, how we divide, and if they have will begin in 3 minutes. Have the students either hand in their to the next lesson by having the students seated in their desks waiting	
Formative Progress check- in strate The studer during class overall und pictures. Consider If there is g goes too lo dropped. T lesson is to	Assessment: (linked to objectives) monitoring throughout lesson- clarifying questions, gies, etc. Its will be assessed on their answers to questions asked is, the answers they write on their white boards, and their derstanding of division by creating their own division fact ation for Back-up Plan: good discussion during the guided practice and the lesson ong, the last part of creating their own word problem will be this part will then be done the next day. The goal of the o get the students to understand division.	Summative Assessment (linked back to objectives) End of lesson: The students will be assessed on their illustration of division word problems within 100 by creating their own word problems and drawings for equations with an unknown number. If applicable- overall unit, chapter, concept, etc.: N/A this lesson is simply a starter lesson to the concept of division.	
Reflection I think this comes to le division pre- students of things that the proble to draw a p and thinking the correct me the diffi division pre- see many of	(What went well? What did the students learn? How do you lesson plan went as good as to be expected. I say this becaus earning the concept of division. They understand that multipl oblems, but they aren't quite sure how it works yet. With this ould work on their division skills as well as be introduced to we went well during the lesson. The students enjoyed working we m and try it for themselves instead of simply listening to me to bicture of their thinking to figure out the problem. I even enjoin as I walked around the room. Another pro of the lesson was t answers by providing a variety of ways to figure out the problem. oblems. Initially I told the students what to do, gave them a po of them were struggling. So I gained their attention and wrote	I know? What changes would you make?): e many of the students in the class are at beginning stages when it ication is the reverse of division and that it can be used to help solve is in mind I tried my best to make this a practicing division lesson so the ord problems containing division. With this in mind there were many with the white boards because they had the opportunity to write down each it. The white boards were also a great tool for the students to use oyed using the white boards because I could assess the students work is having me up at the front of the room helping the students go through olems. The students also helped with this piece because they could tell The con of the lesson was the part where the students made their own piece of paper, and let them begin, but this didn't work too well. I could a steps on the board in the form of an example. It went like this: 1. Write	

a multiplication equation. 2. Flip your multiplication equation into division. 3. Draw a picture of your equation. 4. Write a story to go with your equation. After I wrote this on the board, many of the students knew what to do and they had the visual of the steps in case they forgot.

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Although I am glad I made this change, I think some of the students were not yet ready for this step and they need more instruction on division. I do, though think that this lesson was great exposure for the students to get ready to solve division word problems. In the future, I will be sure to put clearer instructions up on the board right away and to do this lesson in small groups! Small groups would be very beneficial to this lesson because it would allow the students who need a bit of extra help with division to get what they need. Small groups would also allow for greater discussion and understanding among the students. Doing this as a whole group lesson was a bit chaotic because of all of the needs of the students, so small groups would help this problem out immensely. Overall, I think this lesson served its purpose of helping the students learn and practice their division because I was able to see their understanding in the work they handed in. In each students work I could see their thought process, their equation, their pictures, and their word problem, and for the most part, all of them did pretty well.