Grade: 4th		Subject: Math					
	pencil, ruler, crayons, sharpie, math notebooks, paper	Technology Needed: smart board					
plates	·····, ····, ···, ···, ····, ····, ····, ····, ····, ····, ····, ····, ····, ····,						
	al Strategies:	Guided Practices and Concrete Application:					
 Direct Guided Socrat Learni Lectur 	instructionPeer teaching/collaboration/ cooperative learningd practicecooperative learningtic SeminarVisuals/Graphic organizersng CentersPBLreDiscussion/Debateology integrationModeling	Large group activity Hands-on Independent activity Technology integration Pairing/collaboration Imitation/Repeat/Mimic Simulations/Scenarios Other (list) Explain: Differentiation					
4.NF.2		Below Proficiency:					
-	that comparisons are valid only when the two fractions	Peers will help him/her					
refer to the	e same whole.	Ahous Dusfision au					
	results of comparisons with symbols >, =, or <, and justify sions, e.g., by using a visual fraction model.	Above Proficiency: These students can do an extra activity with pizza math					
	s) of the lesson, students will be able to identify fractions as whole and connect fractions to real world applications.	Approaching/Emerging Proficiency: This lesson is tailored for these students					
		Modalities/Learning Preferences:					
Bloom's Ta	xonomy Cognitive Level: Application	Visual- I will draw visual representations on the board and will have students do the same in their math notebooks. Students will also visually see fractions as part of a whole during "pizza math"					
		Auditory- I will explain the concept and talk through what students are to do.					
		Kinesthetic- students will move to be with their group					
- S g	Management- (grouping(s), movement/transitions, etc.) tudents will sit in their desks or move closer to their roup during pizza math will say eyes on me if needed to redirect attention	Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.) - Students will follow along and listen to directions Students will respect the teacher and their classmates Students voices will be at zero during instruction Students will participate in the group activity					
Minutes	Procedures						
2 minutes	Set-up/Prep: • Students will need their interactive math notebooks, a pencil, a ruler, and colors, colored pencils, or markers • Get YouTube video ready						
4 minutes	 Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.) "Think of a few ways fractions are used outside of math class in our everyday lives" Have a few students share out their ideas to the class Ideas could include when baking or cooking, when cutting a pizza, when measuring 						
	(0:14-0:46)						
10 minutes	 Explain: (concepts, procedures, vocabulary, etc.) "Today we are going learn about fractions and discover that they are parts of one whole" "A fraction is a part of something" Write n/d on the board and ask students what the n and d stand for Tell students the North Dakota correlation to help them remember 						
	 Ask what a numerator is (the top numl Ask what a denominator is (the botton 						
		n number, how many parts the whole is divided into)					

	•	 "Each part of a whole must be the same size" "How would you like it you shared a cookie with your brother or sister, but his or her part was bigger than yours?" "Also, we can only compare fractions when we are referring to the same whole." Visually show that 2/8 of a regular size pie is not the same as 2/8 of a mini pie "Now we will do some practice visually representing fraction as part of a whole" Visually represent 3/8 on the board I ate 3/8 of the pizza The pizza is divided into how many equal pieces? How many pieces of pizza did I eat? Visually represent ½ on the board I ate ¼ of a Hershey's chocolate bar How many pieces of chocolate did I eat? Have students show me in their interactive math notebooks that they ate ½ of an apple
		\circ Have students show me in their interactive math notebooks that they ate 2/8 of a pie
10 minutes	-	: (independent, concreate practice/application with relevant learning task -connections from content to real-life nces, reflective questions- probing or clarifying questions)
	•	"Now we are going to do some pizza math"
	-	 Put students into group of 2 or 3
		• Have each group grab 3 paper plates, 3 rulers, a sharpie, and get out a red crayon
	•	"We will go through this together so don't go ahead."
	•	"Each person in your group should do one plate"
		\circ "First mark the center of each of your plates with a pencil dot"
		 "Using the ruler, draw a straight line through the dot from one edge to the other"
		 "We now have two equal parts, each of the parts is what fraction of the whole?"
		 "On one of the plates only, write ½ in each of the parts and shade in one part or ½ of the plate with red crayon"
		 "On another plate, draw a second line from one edge to the other through the center dot, so it is divided into 4 equal parts"
		\circ "Each of the parts is what fraction of the whole?"
		• "Write ¼ in each of the parts and shade in one part or ¼ of the plate with red crayon"
		 "For the last plate, draw a second line from one edge to the other through the center dot, just like the last one"
		 "Next, draw two more lines through the center, dividing your plate into 8 equal parts"
		 "Each of the parts is what fraction of the whole?"
		 "Write 1/8 in each of the parts and shade in one part of 1/8 of the plate with red crayon"
	•	"Look at all 3 of your plates"
		 "Pretend that each red section is a slice of pizza"
		 "Which slice is the largest
		 "Which slice is the smallest?"
		 Compare with symbols on the board
10	Review	(wrap up and transition to next activity):
minutes		· · · ·
	-	Have students complete a fraction worksheet to practice identifying fractions of a whole.
	•	
		 Walk the students through one question from each section on the worksheet
		 Allow students to finish completing the worksheet independently
		 Students will hand in the worksheet when done

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	Name : Teacher :			Scon		
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	4)			••		
	5)	\Re	10			
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					6103	
Formative Assessment Progress monitor your student's lea Students are showing whole in their interact	ing throu arning?) visual rej ive math	ghout le: presenta noteboo	sson (how o	can you do	ocument Stu art of a ide nath	nmative Assessment (linked back to objectives, END of learning) dents will independently complete a fraction worksheet ntifying parts of a whole.
This lesson was an intr were already quite far there are a couple cha fractions to real life, er outside of math class i fractions are used in sy fractions was, but I rev students visually repre- students understood f next two fractions. It is math was a great activ and have each student with the 1/2, %, and 1, instead of all three. It	roductior niliar wit nges I wo specially n our eve ports whi viewed a esent the ractions of s importa vity to do t in the g /8 pizza f ended up	to fraction build mak since it v ery day li ch is son nd explai pizza an quite we nt when , but nex roup do o ractions working e is with	ions for the ns as they a e to improv vas an intro ves. I'm no nething mo ined the No d Hershey's II, I asked the teaching y t time I wo one of the f all at once, g out okay I me at the s	students. The fourth ve the less aductory le t sure if it st of us wo rth Dakot s chocolate hem if the our lesson uldn't put ractions, k I felt like maving stue same time	Even though i graders. The le on. I really like esson. The stuc was worth sho ouldn't think o a correlation the bar fractions y felt like they is to gauge wh students into out I didn't exa lost some of t dents in group . However, the	w? What changes would you make?): was an introductory lesson for the fraction unit, the students sson went as planned and turned out to be a good lesson, but how I engaged the students for the lesson by connecting ents were able to think of many ways how fractions are used wing the very short video clip, but I liked how it showed how The students knew what the numerator and denominator of a hat I learned in math methods to help them remember. I had the in their interactive math notebooks. Since I could see that the needed some more practice and they didn't so I skipped over the ere your students are at as you continue your lesson. The pizza groups. I thought it would work good to put students into groups ctly like how it worked out. Since I couldn't go through what to do he students since each student only did one of the fractions for the activity, but I would have each student do all three of the pizza fractions activity was a great way for students to visually