| Grade: 2nd <br> Materials: markers/colored pencils, pencils, pizza worksheet, and bar graph worksheet |  |  | Subject: Mathematics |
| :---: | :---: | :---: | :---: |
|  |  |  | Technology Needed: $\mathrm{n} / \mathrm{a}$ |
| Instructional Strategies:    <br> $\square$ Direct instruction $\square$ Peer teaching/collaboration/ <br> $\square$ Guided practice  cooperative learning <br> $\square$ Socratic Seminar $\square$ Visuals/Graphic organizers <br> $\square$ Learning Centers $\square$ PBL <br> $\square$ Lecture $\square$ Discussion/Debate <br> $\square$ Other (list) $\square$ Modeling |  |  | Guided Practices and Concrete Application: Large group activity Hands-on Independent activity... Technology integration Pairing/collaboration Imitation/Repeat/Mimic <br> Simulations/Scenarios <br> Other (list) <br> Explain: |
| Standard <br> 2.MD. 10 Draw picture graphs and bar graphs with single-unit scales to represent data sets with up to four categories. |  |  | Universal Design for Learning <br> Below Proficiency: <br> Students who are below proficiency will have difficulty engaging in discussions and will have difficulty color coding the pizza and filling in the bar graph. BD will have an aide to help him in theses processes. I will support other students by having them listen to |
| Bloom's Taxonomy Cognitive Level: Applying |  |  | others who are proficient during discussions. I will also check in with them frequently to clarify any questions and help them as needed. <br> Above Proficiency: <br> Students who are above proficiency will have a deeper understanding of the purpose of graphs and how to follow a key and complete a graph. In order to challenge these students, I will ask them to create a pictograph where each icon represents 2 or more toppings. <br> Modalities/Learning Preferences: <br> - Visual: Students will see the worksheets and modeling <br> - Auditory: Students will listen to instruction <br> - Kinesthetic: $\mathrm{n} / \mathrm{a}$ <br> - Tactile: Students will use markers/colored pencils to color the toppings on the pizza. |
| Classroom Management- (grouping(s), movement/transitions, etc.) <br> - Students will be seated at their desks during instruction. <br> - Students will be working at their desks or an area around the room where they can do their jobs. <br> - I will use callbacks as needed to regain student attention <br> - I will use countdowns to signal transitions <br> - I will use positive reinforcement to let students know how they should be acting. |  |  | Behavior Expectations- (procedures/expectations specific to the lesson, rules and expectations, etc.) <br> - Students will raise their hands to answer questions or make comments. <br> - Students will not interrupt others. <br> - Students will use an appropriate voice level during instruction and work time. <br> - Students will be respectful of other's personal space. |
| Minutes | Procedures |  |  |
|  | Set-up/Prep before lesson: <br> - Pizza and bar graph worksheets ready to hand out |  |  |
| $\begin{gathered} 5 \\ \text { minutes } \end{gathered}$ | Engage: (opening activity/ anticipatory Set - access prior learning / stimulate interest /generate questions, etc.) <br> - Alright second graders, $\mathrm{it}^{\prime}$ 's time to do some $100^{\text {th }}$ day math! <br> - Remind students of goals for the week. <br> - We are going to be practicing how to make a graph by using pizza! <br> - Sadly, it's not a real pizza, but we're still going to have fun. <br> - Do you all remember the Moby and Annie video that we watched yesterday morning? <br> - Can some of you help remind me about what we learned from that video? |  |  |
| $\begin{gathered} 15 \\ \text { minutes } \end{gathered}$ | Explain: (teacher-led) <br> - Hand out pizza and graph worksheets. <br> - Sing "the first thing on you paper is your name" song <br> - Okay learners, let's talk about why we graph. We graph to make sense of information. <br> - Can we tell just by looking at the pizza which topping shows up the most? <br> - No! <br> - That's why we need to graph! It helps us make sense of information quickly! |  |  |



## Changes

If I were to change something about this lesson, I would start with how long I taught. My students had just finished a science experiment that we did not have time to finish from the previous day. While experimenting, they had been sitting for a while. Even though they were engaged for the experiment, sitting takes a toll on students. I could see that I was starting to lose them while I was explaining the pizza graphing. Because of this, I shortened my instruction to let them get to work. I should have given students an activity break. It could have been anything from a quick stretch to a Go Noodle. Had they had a brain break and been able to move their bodies, I think they would have had better attention when I was trying to explain the pizza graphing. With their longer attention, I would have been able to teach longer, which would have clarified what to do for students who still were not quite sure of themselves.

Another change I would make to this lesson would be to do a graphing example on the board. I could have used anything interesting to my students for the data, and then we could have worked together to fill in our bar graph. I think this would have also been a huge help in eliminating misunderstandings. This also would have been a more efficient use of time instead of handing out the bar graphs as they finished their pizzas and explaining the bar graph then.

I would also change how I distributed materials for this lesson. I gave students the pizza to work on first, and then I gave them the graph after their pizza was finished. Looking back, I would have given students both at the same time. I ended up giving students who were finishing later their bar graphs because they needed to be handed in together, whether they were finished or not. This was so students would not lose their papers before their additional work time later in the day. I noticed that once these students had the bar graph with the pizza, their work pace quickened. I think this was because they could see the purpose of coloring the pizza. Also, some of these students preferred to graph as they went.

* See Pizza and Bar Graph Worksheets Below


## Date: 1/30/2020

Appendix A: Pizza


Lesson Plan Template

## Date: 1/30/2020

Appendix B: Bar Graph


