## GRADE 2/3 MATH \& ADST: Food Bank Fundraiser

## Summary of Learning Opportunity

Prior to this project, students built their numerate thinking skills through various problem-solving tasks. This year, I focused on having students share different strategies and solutions to see different ways of solving, and to practice reflective thinking. For this project, students were given the opportunity to engage in an authentic situation-raising money for our local Food Bank. After individually brainstorming ways to raise money, students shared proposals and considered the parameters. In their proposals, students selected a fundraising method, calculated a realistic goal, and made a plan to reach their goal. The class then engaged in a consensus-building process to make a final choice for the best fundraising method.

|  | Mathematics 2 \& 3 | - Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving <br> - Explain and justify mathematical ideas and decisions |
| :---: | :---: | :---: |
|  | ADST 2 \& 3 | - Ideating: Generate ideas from experiences and interests, Choose an idea to pursue |
|  | Mathematics 2 | - Addition and subtraction to 100 <br> - Financial literacy - coin combinations to 100 cents, and spending and saving |
|  | Mathematics 3 | - Addition and subtraction to 1000 <br> - Financial literacy - fluency with coins and bills to 100 dollars, and earning and payment |

## Numeracy Connections

## Instruction and Assessment

## Competencies Developed, Practiced, and/or Assessed

NUMERACY: InterpretsIdentifies parameters and limitations
Applies-Translates the scenario into a mathematical problem (mathematizes); Develops a plan of approach

NUMERACY: Analyzes-Reflects on the reasonableness of the solution in context

NUMERACY: Applies-Evaluates alternative approaches; Communicates-Defends decisions and assumptions

1. I created a guiding sheet for students to plan their fundraising goals, and set the parameters (prices to charge-we had discussions about "just right numbers"). The students showed their financial goals in ways that made sense to them.
2. As a class, we brainstormed all possible considerations when making our decision for our fundraising method.

Students used these considerations to help them critically think about which idea we should use to raise money for the Food Bank.
3. Using a consensus-building model, each student shared their ideas and proposals with the class. Together, we determined the best way to raise money for the local Food Bank.
*Note: this teacher had practiced and utilized an Indigenous way of consensus building as a regular classroom practice

Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving

Ideating: Generate ideas from experiences and interests

Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving Ideating: Choose an idea to pursue

Explain and justify mathematical ideas and decisions

Ideating: Choose an idea to pursue

## Proficient Student Work, Teacher Assessment and Reflection



## Teacher's Observations and Assessment

## Grade 2

This student demonstrated good numerate understanding by identifying a realistic class goal. They were also able to use two different math strategies to solve this problem. T-charts and open number lines are both familiar strategies used in the class. When I asked them why they chose these strategies they reflected, "I am good at T-charts and open number lines". When I asked why they did both they replied, "I wanted to challenge my brain to solve it 2 ways. Then I could check if they were the same. If they are the same, then I know it's right." This provided me with evidence that they are proficient in evaluating their approach and explaining and defending their mathematical ideas.


After looking af all of the ideas, which do you think would be the best plan for Division 8 ?

## Arts and Crats sale

Why do you think it would be the best plan for Division 8 ? hecause its a sood time of year. It is a 900d pris. there are alot of splise nepded. 30 minits. in the fount of the schook
$\qquad$
$\qquad$

## Teacher's Reflection

The K-12 Learning Progressions provide key aspects that teachers can use to guide their planning, teaching, and assessment of connected competencies. If we know what the destination is, we can plan lessons accordingly. I like how the focus is on the processes, rather than just finding the one single right answer.


## Teacher's Observations and Assessment

## Grade 3

This student was able to set a realistic goal with parameters and use different mathematization strategies to calculate how many cars we would need to wash. When I asked them to explain their thinking they said, "First I kept adding \$5 until I reached $\$ 50$. I know that $50+50+50=150$ so I didn't have to keeping adding the 5's one at a time. I counted the 5's I added, 10 all together so then I knew $10+10+10=30$. That's pretty good, we only have to wash 30 cars. I think we might be able to do even more." This provided me with evidence that they are proficient in evaluating their approach and explaining and defending their mathematical ideas.
 plan for Division 8?

mosh

Why do you think it would be the best plan for Division 8?


Below: visualizations from the consensus building class discussion


Things to consider: how much will people pay (fair price)? time of year
-how much will it cost to buy supplies? - What supplies are needed? -how long will it take to get ready? -where will we do it? how much could we make?

