

## **Catholic Mission School**



# P.2 MULTIPLICATION JOURNEY TO THE CHOCOLATE FACTORY



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### **Our sharing**

01

Introduction

02

Lesson Sharing 03

Mission Cards

04

Senior Student storytelling



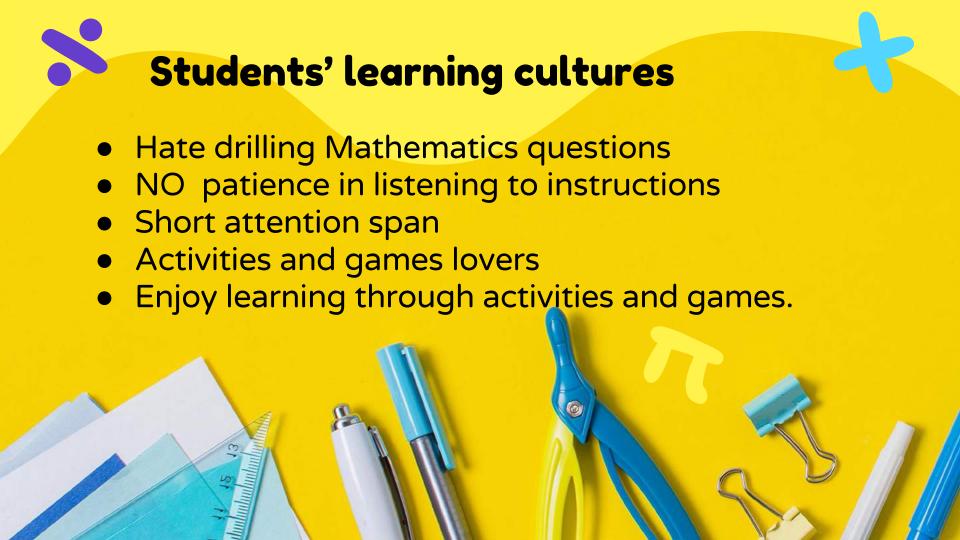
# 01 Introduction



#### **Background**



- 1. About 50% of them are non- Chinese students.
- 2. Our students comes from different countries with different culture.
- 3. They come from more than 20 different countries







#### Our ideas arise from...





#### Lesson Plan for Multiplication of 3

- Warm up by Rhythm Counting
- Introduce Skip Counting using Number line and Rhythm Counting
- Introduce Repeated Addition
- Finish a worksheet with 3 different methods:
   Skip Counting, Repeated Addition, and Reciting Multiplication table
- Ask the students to compare and pick a favourite method



Catholic Mission School					
Mathematics Worksheet					
Multiplication of 3 Activity works	Date: 12-1/-202()				
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ers: 7, 0, 7, 12					
e numocis:					
t ways to get these numbers.					
Let's check 6					
Stick the colour stickers					
<b>••••</b>					
3+3=6					
3 × 2 = 6					
Let's check 3					
Stick the colour stickers					
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3=3					
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	Mathematics Worksheet Multiplication of 3 Activity works  Multiplication of 3 Activity works  dding or Multiplying?  ou get when you count by 3?  eers: 3, 6, 9, 12  se numbers?  It ways to get these numbers.  Let's check 6  Stick the colour stickers  3+3=6  3×2=6  Let's check 3  Stick the colour stickers				

Question 2	Let's check 9	
Counting by 3	Stick the colour stickers	
Repeated Addition	3+3+3=9	
Multiplication	3 × 3 =9	

Question 3	Let's check 12
Counting by 3	Stick the colour stickers
Repeated Addition	3+3+3+3=12
Multiplication	3 × 4 = 12

Question 4	Let's check 15
Counting by 3	Stick the colour stickers
	2000000000000
Repeated Addition	3+3+3+3+3=15
Multiplication	3 × 5 = 15

#### Task 3 Introducing Multiplication by 3

```
3 \times 1 = \overline{3}
3 \times 2 = 6
3 × 3 = 9
3 \times 4 = 12
3 × 5 = 15
3 \times 7 = 2
3 \times 10 = 30
```

#### Conclusion

Which method do you like?

Rating

Method 1: Skip Counting

\*\*\*

Method 2: Repeated Addition

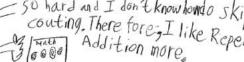
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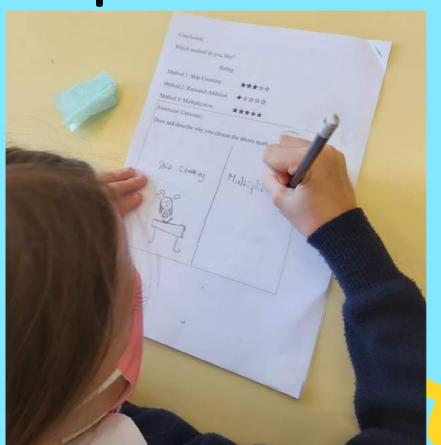
Method 3: Multiplication

\*\*\*\*

Extension (Optional):

Draw and describe why you choose the above method?











#### Conclusion

Which method do you like?

Rating

Method 1: Skip Counting

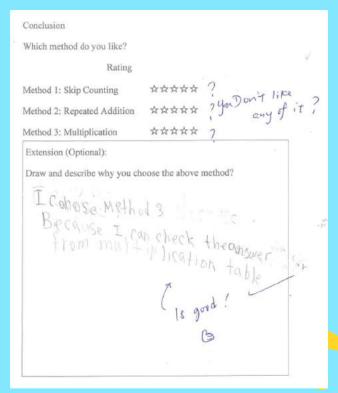
Method 2: Repeated Addition ★★★★

Method 3: Multiplication ★★★★

Extension (Optional):

Draw and describe why you choose the above method?

becourse I can count has becomese I can count to step.





#### Teacher as a facilitator

- Invite students to lead class to chant
- Instruct students to use TouchCount to show multiples of three and thus other students could visualize them
- Engage the whole class via joint-activities skip counting
- Use Worksheets to solidify the ideas and knowledge learnt
- Allow the student to choose their favourite method to increase their learning interests

## 03

#### **Math Mission cards**







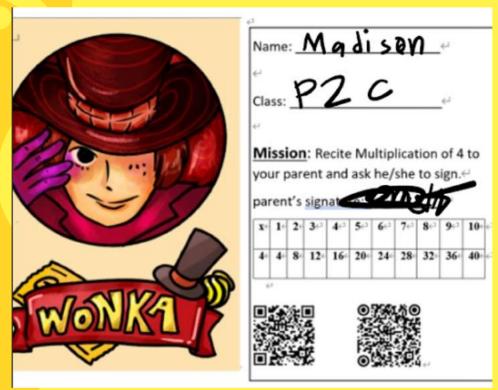


#### Mission Card as an informal curriculum

- 1. Facilitating Maths conversation outside classroom
- Motivate students to learn multiplication in a less stressful way
- A spontaneous process, practice at their own pace
- 1. Family, friends teachers, work together to help pass the missions.

Each of them will receive a mission card with different tasks, 3 Times per week. During school suspension, we upload mission cards to google classroom.

#### Mission Card example 1



For example, recite times table of 4 to an adult around them (helper, tutor, granny, etc) and ask the person to sign it afterward.

#### Mission Card example 2



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6	6	12	18	24	30	36	42	48	54	60
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The task is to play a 6s' multiplication board game with classmates during recess.

### Mission Card example 3



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$\overline{}$						

Class: \_\_\_\_\_

<u>Mission</u>: Rap Multiplication of 3 and take a video then upload to Google classroom.

x	1	2	3	4	5	6	7	8	9	10
3	3	6	9	12	15	18	21	24	27	30





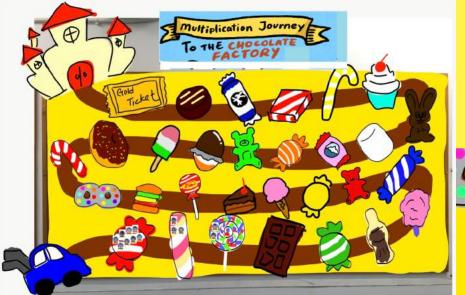


#### Learning journey of multiplication Board



Learning journey of multiplication Board

(online version)



Is shared on google classroom allowing students to see their progress any time

1.A visual path of their achievement

2.Complete all the missions and arrive at the chocolate factory to earn a golden ticket (a reward and recognition of their achievement)



#### We can achieve...

1.Learning as assessment

2.Self-regulation

3.Self-assessment, peer-assessment facilitate homeschool support for the students

4.attitude: persistence

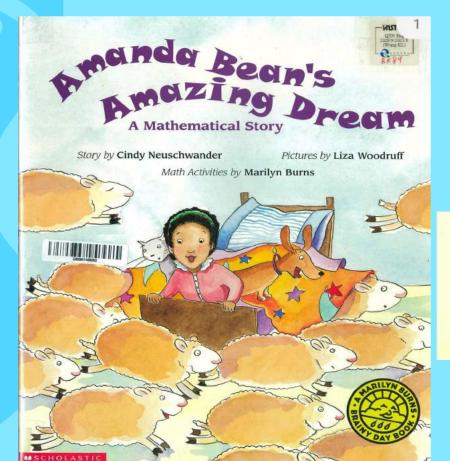


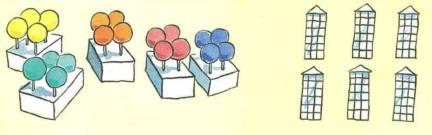
# Nurturing Mathematics Story reading culture with the help of senior form students

Reading aloud of Math Story Book by senior form students help students

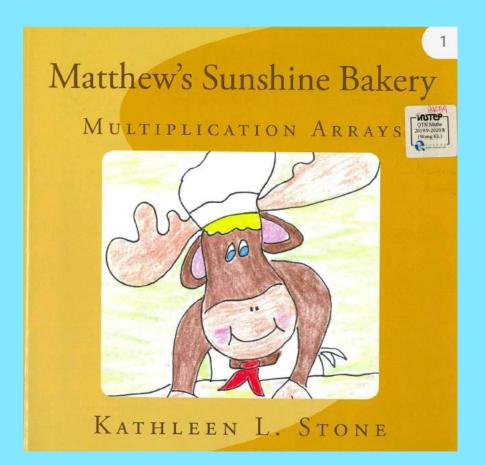
- 1. create a lifetime interest in Maths
- 1. extend their attention spans
- 1. aid in both language and Maths development
- 1. build their comprehension of Maths' concept

#### **Amanda Bean's Amazing Dream**

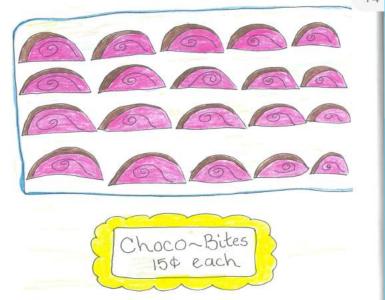




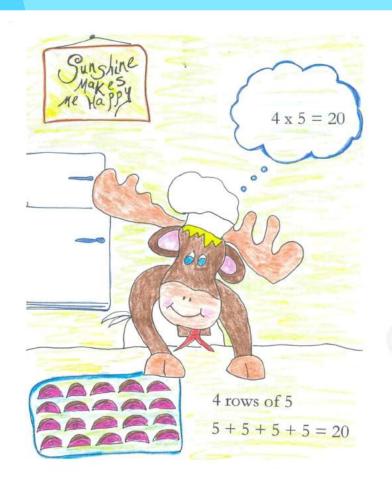
#### Matthew's Sunshine bakery







There are *four* rows of *five* candies
Arranged on Matthew's tray.
So what's the multiplication equation
You would say for this array?



Did you say *four* times *five* equals *twenty?*If you did, you were right!

You are a great mathematician.

A quick thinker and very bright!

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# Why do we invite P6 students to do story telling instead of teachers?

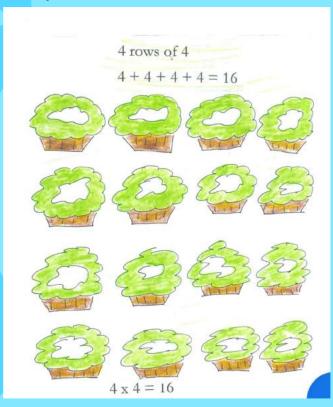
- 1. senior students show as good model to junior students
- 1. P6 students students receive praise and appreciation from teachers -to build up positive learning attitude



#### Matthew's Sunshine bakery



#### Arrays



- an arrangement of objects, pictures, or numbers in columns and rows.
- useful representations of repeated addition and multiplication concepts.
- Encourage children to think of "real life" arrays they have seen e.g. eggs in an egg carton, paints in a watercolor tray, crayons in a crayon box, etc.

# Expected Outcome for story telling of Math:

- 1. promote students' participation and interest
- 1. build up their Maths' concept
- 1. Learn language and Math representation

#### **Multiplication Pre-test**



7x6=?\*

Short-answer text

#### **Paper Version**



#### Positive Impact on NCS students

- Unbelievable high score in the Pre-test
- Request for mission cards proactively
- Students gain confidence in reciting multiplication table
- Parents take part in helping their children

## Thank You!