

Nurturing a Holistic Thinker and Skilled Communicator in Mathematics



Every Saint an Analytical, Self-directed problem-solver by acquiring thinking, reasoning, communication, application and metacognitive skills.



Our Math Department Vision
Every Saint is an analytical, self-directed problem-solver

Authentic

Customised

Boy-Friendly
Strategies / MTV

Contextualised / Real-
Life Experience



Math Pedagogies

Learning
Dispositions

Embedded Values

SAJS

Signature Pedagogy



Teaching understanding of concepts through 3 representations

E

Enactive

- Provide learning experiences through the use of concrete materials, manipulatives or hands-on activities.

P

Pictorial

- Provide learning experiences with the use of visual medium : pictures, diagram, images, videos, etc to allow pupils to generate mathematical rules and regulations through questioning.

A

Abstract

- Provide learning experiences for identification and application of problem-solving skills and strategies, as well as the explanation of concepts, giving examples and non-examples and justification for specific rules and solutions.



Learning Dispositions

The disposition to :

- Persevere (Resilience)
- Be adventurous (Wonder)
- Make connections (Wonder)
- Be accurate (Excellence)
- Seek and evaluate reasons (Wonder)
- Have metacognition (Self-Discipline & Excellence)



Key Areas of Focus

- **Learning Experience in the Classroom**
 - ❖ Activity-Based lesson (Manipulatives)
 - ❖ Use of Mini Whiteboards (Formative Assessment)
 - ❖ Math Vocabulary
 - ❖ Problem-Solving/Performance Tasks
 - ❖ Math Journal



Formative Assessment (Use of Manipulatives)



Formative Assessment (Use of Manipulatives)



Formative Assessment (Use of Mini Whiteboard)

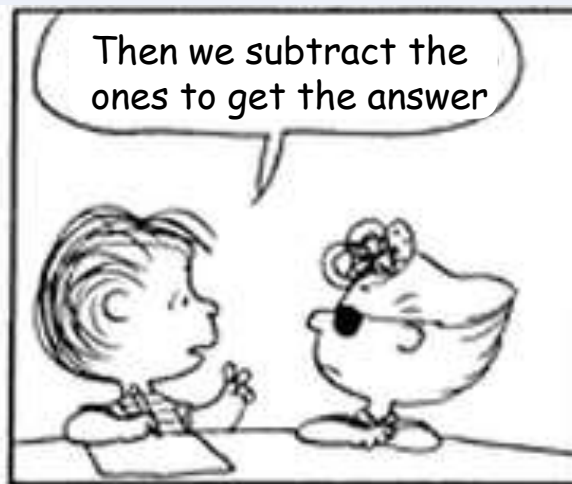


Formative Assessment (Use of traffic light cards)



Math Vocabulary

$$\begin{array}{r} 12 \\ - \quad 3 \\ \hline \end{array}$$



Learning Outcomes

1. Understand numbers up to thousand
2. Solve mathematical problems involving addition and subtraction
3. Multiply and divide numbers within multiplication tables
4. Identify, name, describe and sort shapes and objects
5. Tell time to 5 minutes
6. Compare and order objects by length, mass, or volume
7. Read and interpret picture graphs with scales
8. Understand fractions



Platforms



1. Write the numeral 17 in words.

2. Arrange the numbers in order. Begin with the smallest.

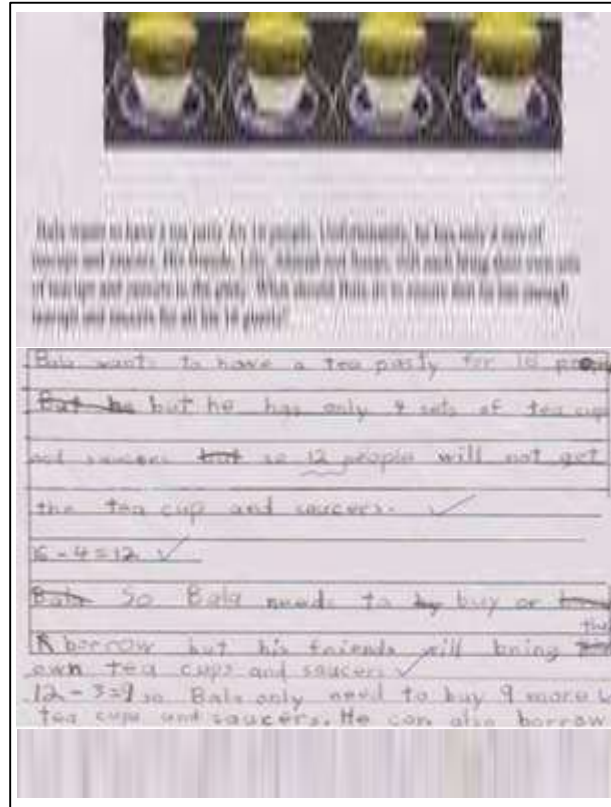
20	15	19	9
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Smallest

3. Write one addition sentence based on the given picture.

 + =

Topical Reviews



Journal Writing



Performance Tasks



Math Resources

My PALs Are Here! Textbooks *(to be used as reference for parents)*

My PALs Are Here! Workbooks

School Designed Topical and Problem-Solving Worksheets

Mini Whiteboard

Hands-on Manipulatives

Files: Blue (Workbook) and Purple (School worksheets)



Ways we hope to partner you

Rigor

- Ensure daily practice
- Check their PO and class website
- Get child to explain concepts to you



Ways we hope to partner you

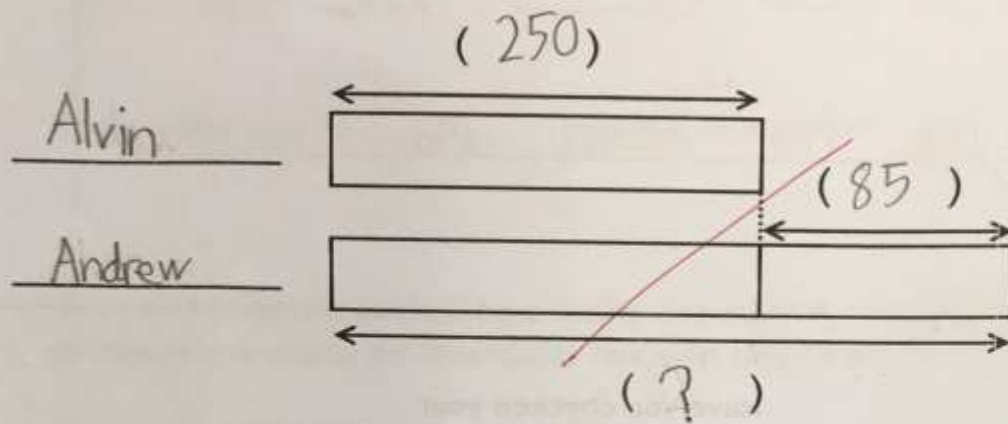
Presentation of Work (Neat and Organised)

- Ensure that there are proper steps and equations
- Ensure **proper filing** of Worksheets
- Ensure **corrections are completed (with thorough checking)**



Sample of Student's Work

1. Alvin scored 250 points in a game. Andrew scored 85 points more than him.
How many points did Andrew score?



Working

$$\begin{array}{r} 250 \\ + 85 \\ \hline 335 \end{array}$$

$$\boxed{250} \quad \textcircled{+} \quad \boxed{85} \quad \textcircled{=} \quad \boxed{335}$$

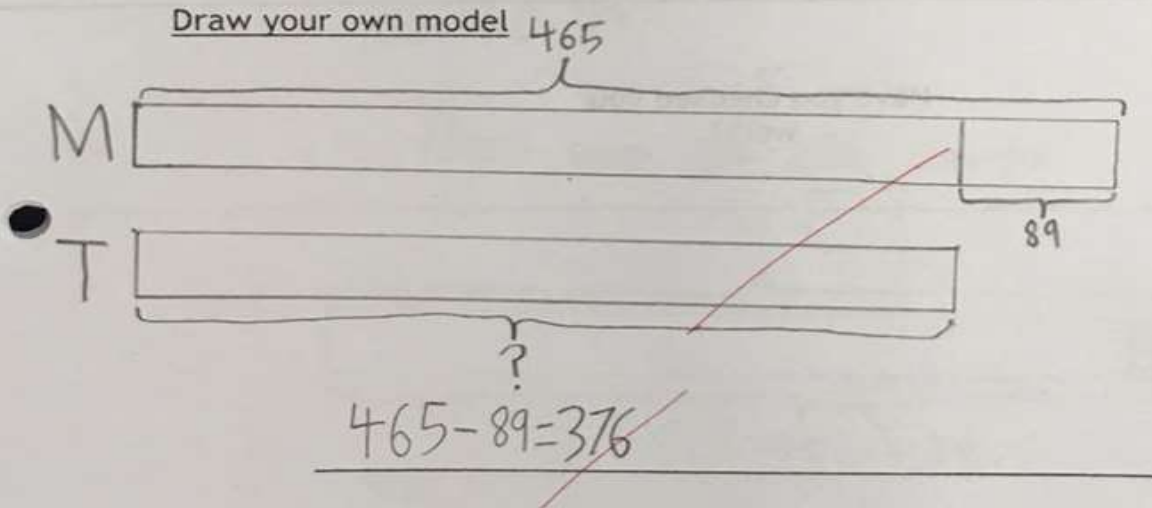
Andrew scored 335 points.



Sample of Student's Work

3. Benjamin sold 465 eggs on Monday. He sold 89 fewer eggs on Tuesday than on Monday. How many eggs did he sell on Tuesday?

Draw your own model



Working

$$\begin{array}{r} 3 \overline{) 465} \\ \underline{376} \\ 89 \end{array}$$

He sold 376 eggs on Tuesday.

5



Ways we hope to partner you

- Develop and prepare them the following skills
 - ❖ Time Management
 - ❖ Accuracy
 - ❖ Mental Calculation



