

# Mathematics

## 1. Main Objectives

- 1.1 To arouse our students' interest and cultivate their critical thinking in order to improve their understanding and analytical skills.
- 1.2 To test our students' critical, analytical and problem solving skills.
- 1.3 To enable our students to apply mathematical and calculating skills in daily life.
- 1.4 To enhance our students' self-learning ability.
- 1.5 To boost our students' thinking and enquiry skills.

## 2. Ways of improvement

### 2.1 In class

- P.1 Teach multiplication of 2, 5 and 10 when teaching grouping
- P.2–4 Recite multiplication table randomly daily in class.
- P.1–6 Teach students to understand and solve problems step by step, by listing integrated analysis chart and by using collaborative learning.
- P.6 Do Pre-Secondary 1 HKAT supplementary exercises.

### 2.2 Activities and competitions

Mathematics Day – games booths and inner class Mathematics competition

### 2.3 Bonus Question

Set extra 1 or 2 challenging questions in Quizzes and Exams to strengthen students' critical abilities and problem solving skills. No marks will be deducted if they are wrong and bonus marks are given if they are correct.

## 3. Targeted Points

- 3.1 To improve students' calculating speed and train students to use mental calculation.
- 3.2 To apply mathematical knowledge in students' daily lives.
- 3.3 To improve students' problem solving skills.
- 3.4 To strengthen students' basic knowledge and usage of measure.
- 3.5 To boost students' sketching skills.
- 3.6 To promote students' critical thinking and investigation spirit.
- 3.7 Mathematics Competition on reciting multiplication and addition and mental calculation will be held twice a week.

4. Mathematics programmes of the year:

Level	Activities	Objectives	Date	Venue	Content of the programmes	Teacher-in-charge	Resources
P.1	Go Shopping	Enhance students' perception and use of Hong Kong coins	March	Classroom	1. Find the total cost of two items through counting. 2. Read price tags and count the number of coins needed for payment. 3. Find the amount left after payment through counting.	P.1 Mathematics teachers	Price tag Goods to be sold HK coins (teaching aids)
	Measuring	Estimate the lengths of objects and the distances between objects with 'everready rulers'.	April / May	Classroom	Ask the students to measure and estimate the length or width of the bulletin board, long bench or the counter of the tuck shop by ever-ready rulers like thumbs, hand span, arm span.		

4. Mathematics programmes of the year:

Level	Activities	Objectives	Date	Venue	Content of the programmes	Teacher-in-charge	Resources
P.2	Measuring	Measure objects with 'cm' and 'm'.	October	Classroom	Ask the students to measure and estimate the length or width of the bulletin board, long bench or the counter of the tuck shop by ever-ready rulers like thumbs, hand span, arm span.	P.2 Mathematics Teachers	
	Go Shopping	Enhance students' perception and use of Hong Kong coins and notes	March	Classroom	1. Find the total cost of two items through counting. 2. Read price tags and count the number of coins needed for payment. 3. Find the amount left after payment through counting.		Price tag Goods to be sold HK coins and notes (teaching aids)

4. Mathematics programmes of the year:

Level	Activities	Objectives	Date	Venue	Content of the programmes	Teacher-in-charge	Resources
P.1-6	Maths. Games	To arouse students' interest to tackle with the problems they meet	Whole year	Classroom	Mathematics games are set monthly to arouse students' interest in Mathematics and to boost their critical thinking.	P.1-6 Mathematics teachers	Questions Prizes for the winners
P1-6	Mathematics Trail	Students can use different kinds of strategies to solve the problems that the teachers set for them.	June	Classrooms, Sitting-out Garden, Playground, Library, Computer Room, etc.	The students are divided into groups. Each group gets a set of questions and worksheet. They have to find the answers according to the instructions in the worksheet.	P.1 – 6 Mathematics teachers	String, Measuring tape, metrerruler Trundle wheel, worksheet, etc.