

PAMA & SAMA First Year Training Syllabus (Level 10, 9, 8, 7)				
		Day 1	Day 2	Day 3
1	9 : 10 - 10 : 00	History of Abacus and finger-counting Development of abacus and mental arithmetic education around the world	2 digit simple addition & subtraction 2 digit 5's complement addition & subtraction	2 digit addition & subtraction Common student mistakes discussion, practice
2	10 : 00 - 11 : 00	How to choose an abacus The difference of one-hand and two-hand method	2 digit 10's complement addition & subtraction Key points for mental arithmetic with reading	3 digit abacus addition & subtraction with listening 2 digit mental addition & subtraction
3	11 : 00 - 12 : 00	One-digit simple addition & subtraction 5's complement addition and subtraction	2 digit mixed formulae addition & subtraction 2 digit practice (all units)	Multiplication 2 x 2 (Level 7)
4	12 : 00 - 13 : 00	1 digit 10's complement addition & subtraction	9-bead abacus demonstration	Division 4 ÷ 1 (Level 7)
5	15 : 00 - 16 : 00	1 digit mixed formulae addition & subtraction	Multiplication 2 x 1, 3 x 1 (Level 8)	Level 7 Review and Practice Level 8 Certification Exam
6	16 : 00 - 17 : 00	Common student mistakes, practice (1-9)	Division 3 ÷ 1 (Level 8)	Discussion on first and second year student progress or computer flash calculation practice
7	17 : 00 - 18 : 00	Mental arithmetic with listening (1-digit)	Level 8 Review and Practice	Certificate Ceremony and sharing ideas
20 hours in total				

PAMA & SAMA Second Year Training Syllabus (Level 6, 5)				
		Day 1	Day 2	Day 3
1	9 : 10 - 10 : 00	Abacus and mental arithmetic Q&A or Level 7 Certification exam	Addition & subtraction with listening and fractions Common student mistakes identification	Multiplication 3 x 3 (Level 5)
2	10 : 00 - 11 : 00	Addition & subtraction with fractions and negative numbers	Mental multiplication with reading 2 x 1 Mental division with reading 3 ÷ 1	Division 5 ÷ 2 (Level 5)
3	11 : 00 - 12 : 00	Multiplication 2 x 3 and 3 x 2 (Level 6)	2 digit Mental addition & subtraction with reading (2-4 rows) Level 6 Mental arithmetic Review	Division 5 ÷ 3 (Level 5)
4	12 : 00 - 13 : 00	Division 4 ÷ 2 (No over-quotient)	Solving for square roots 2 digit roots	Level 5 Review and practice
5	15 : 00 - 16 : 00	Division 4 ÷ 2 (with over-quotient)	Solving for square roots 3 digit roots	Level 3 Slip-file calculation (bank notes) and demonstration
6	16 : 00 - 17 : 00	Division 4 ÷ 2 (same first digits, special questions)	Solving for square roots 2 and 3 digit Review and Test	Level 6 Certification Exam
7	17 : 00 - 18 : 00	Level 6 Review and practice	Discussion on second and third year student progress or 2 and 3 digit mental addition & subtraction with listening	Certificate Ceremony and sharing ideas
20 hours in total				

PAMA & SAMA Third Year Training Syllabus (Level 4, 3)				
		Day 1	Day 2	Day 3
1	9 : 10 - 10 : 00	Level 5 Abacus Certification Exam and Level 6 Mental arithmetic Certification Exam	Solving for square roots 2 digit and 3 digit roots review	Level 3 Multiplication Fractions (abstract numbers and denominate numbers)
2	10 : 00 - 11 : 00	Multiplication 3 x 4 4 x 3 (Level 4)	Solving for square roots for fractions (with rounding or remainders)	Multiplication Practice Level 3 Division with fractions (abstract numbers)
3	11 : 00 - 12 : 00	Division 6 ÷ 2, 3, 4 (Level 4)	Solving for square roots instructino demonstration and test	Level 3 Division with fractions (abstract and denominate numbers)
4	12 : 00 - 13 : 00	Level 4 Review and Practice	Level 2 slip-file calculation (bank notes) and game with numbers	Level 3 Review and Practice
5	15 : 00 - 16 : 00	Addition & subtraction with listening and fractions or educational materials explanation	Mental multiplication with listening 2 x 1, 3 x 1 Mental division with listening 3 ÷ 1, 4 ÷ 1	Instruction demonstration and discussion
6	16 : 00 - 17 : 00	Mental multiplication with reading 3 x 1 Mental division with reading 4 ÷ 1 2 digit Mental addition & subtraction with reading 5-8 rows	Primary operations and consecutive multiplication and division questions	Level 4 Abacus Certification Exam and Level 5 Mental Arithmetic Certification Exam
7	17 : 00 - 18 : 00	Contestant training and competition preparation	Discussion on third and fourth year student progress or 3 digit mental addition & subtraction with listening	Certificate Ceremony and sharing ideas
20 hours in total				

PAMA & SAMA Fourth Year Training Syllabus (Level 2, 1 and Advanced Levels)				
		Day 1	Day 2	Day 3
1	9 : 10 - 10 : 00	Level 3 Abacus Certification Exam and Level 4 Mental Arithmetic Certification Exam	Level 2 and 1 Division (abstract and denominate numbers)	Solving for cubic roots (1) 2 digit roots
2	10 : 00 - 11 : 00	Level 2 and 1 Multiplication (abstract and denominate numbers)	Omission technique for division (1) (Advanced levels; denominate numbers)	Solving for cubic roots (2) 3 digit roots
3	11 : 00 - 12 : 00	Omission technique for multiplication (Advanced Levels)	Omission technique for division (2) (Advanced levels; anstract numbers)	Solving for cubit roots review 2 and 3 digit roots
4	12 : 00 - 13 : 00	Common student mistakes in multiplication	Common student mistakes in division	Level 1 Slip-file calculation (bank notes) and game with numbers
5	15 : 00 - 16 : 00	Mental addition & subtraction with reading 3 digit 3 or 4 rows Abacus addition & subtraction with listening and fractions	Mental multiplication with reading 2 x 2 Mental division with reading 4 ÷ 2	Mental multiplication with listening 2 x 2 Mental division with listening 4 ÷ 2
6	16 : 00 - 17 : 00	One-way clear technique Multiplication	Demonstration and discussion on classroom management	Q&A Session or omission technique test
7	17 : 00 - 18 : 00	One-way clear technique Division	Disucssion on fourth and fifth year student progress or 3 and 4 digit mental addition & subtraction	Certificate Ceremony and sharing ideas
20 hours in total				