

# Mathematics 4

**Teacher: Ms. Aina Morana**

**Time: 8 x 35 minutes per week**

**Course Description:**

The Grade 4 Mathematics package adopts the concrete to abstract approach in the presentation of mathematical concepts, skills and problem-solving strategies. When pupils are familiar with the ideas taught, they can progress to a more advanced or abstract stage without the use of manipulative.

Research has shown that this approach helps pupils to construct mathematical knowledge. The Grade 4 package also places emphasis on equipping pupils with the relevant thinking skills and heuristics for problem-solving. This will help pupils develop higher order thinking skills.

**Resources:**

My Pals Are Here! Mathematics (2<sup>nd</sup> edition) Course book 4A and 4B  
My Pals Are Here! Mathematics (2<sup>nd</sup> edition) Work book 4A and 4B  
My Pals Are Here! Mathematics (2<sup>nd</sup> edition) Homework book 4A and 4B  
Additional resources will be used as necessary

**Prerequisites:**

Successfully completed grade 3 requirements

**Main Topics Covered:**

**Q1**

- Whole Numbers (1)  
Numbers to 100 000, Comparing Numbers Within 100 000  
**(Topic Test 1)**
- Whole Numbers (2)  
Rounding Off Numbers to the Nearest Ten and Nearest Hundred, Estimation, Factors, Multiples  
**(Topic Test 2)**
- Whole Numbers (3)  
Multiplication by a 1-digit Number and a 2-digit Number, Division by a 1-digit Number

**Q2**

- Tables and Line Graphs
- Fractions  
Mixed Numbers, Improper Fractions, Conversion of Fractions, Adding and Subtracting Fractions, Fraction of a Set  
**(Topic Test 3)**
- Angles  
Understanding Angles, Drawing Angles to 180°, Turns and Right Angles, 8-point Compass
- Perpendicular and Parallel Lines

**(Semester 1 Exam)**

**Q3**

- Decimals (1)  
Understanding Tenths, Hundredths and Thousandths, Comparing Decimals, Rounding Off Decimals, Fractions and Decimals
- Decimals (2)  
Four Operations of Decimals (Addition, Subtraction, Multiplication, Division), Estimation of Decimals  
**(Topic Test 1)**
- Time  
Seconds and 24-Hour Clock

**Q4**

- Squares and Rectangles (4A)
- Area and Perimeter  
Rectangles and Squares, Composite Figures  
**(Topic Test 2)**
- Symmetry  
Identifying Symmetric Figures, Identifying Lines of Symmetry, Making Symmetric Figures and Patterns
- Tessellations  
Identifying Tessellations, Tessellating Patterns  
**(Topic Test 1)**  
**(Project)**

**(Semester 2 Exam)**

**Homework:**

Students are expected to spend about 45 minutes to do their homework daily.

**Remarks:**

Should you have any questions do not hesitate to contact me at [aina.morana@acsjakarta.sch.id](mailto:aina.morana@acsjakarta.sch.id)