

**Dawood Public School**  
**Course Outline 2017-18**  
**Math**  
**Class II**

**Books:**

Lu jitan, New Syllabus Primary Mathematics  
Practice Books 2a and 2b, Singapore; Oxford University Press

**Monthly Syllabus for the year 2016-2017**

MONTHS	TOPICS	DURATION
AUGUST	<ul style="list-style-type: none"> <li>• Numbers to 1000</li> <li>• Table of 2 and 3</li> </ul>	<b>1.5 week</b>
	<ul style="list-style-type: none"> <li>• 4 operations 4 digits (+, -)</li> <li>• Activity calendar/ mental math</li> </ul>	<b>2 week</b>
SEPTEMBER	<ul style="list-style-type: none"> <li>• Writing in words and figures 1000-5000 (randomly)</li> </ul>	<b>1 week</b>
	<ul style="list-style-type: none"> <li>• Table of 4 and 5</li> <li>• Fractions( proper and improper)</li> <li>• Comparing and ordering fraction</li> </ul>	<b>2 weeks</b>
	<ul style="list-style-type: none"> <li>• Activity calendar/ mental math</li> </ul>	<b>1 week</b>
OCTOBER	<ul style="list-style-type: none"> <li>• 2D shapes</li> </ul>	<b>0.5 week</b>
	<ul style="list-style-type: none"> <li>• Geometry using ruler to draw a line</li> </ul>	
	<ul style="list-style-type: none"> <li>• Angles. Ray (definition)</li> </ul>	
	<ul style="list-style-type: none"> <li>• 4 operations 4 digits (<math>\times</math>, <math>\div</math>)</li> </ul>	<b>1 week</b>
	<ul style="list-style-type: none"> <li>• Word problems (+, -)</li> </ul>	<b>1 week</b>
NOVEMBER	<ul style="list-style-type: none"> <li>• Table of 6 and 7</li> <li>• Activity calendar/ mental math</li> </ul>	<b>1.5 week</b>
	<ul style="list-style-type: none"> <li>• Lines and curves</li> <li>• Divisibility rules</li> </ul>	<b>1 week</b>
	<ul style="list-style-type: none"> <li>• Activity calendar/ mental math</li> <li>• Revision for Midterm exams</li> </ul>	<b>3 weeks</b>
DECEMBER	<ul style="list-style-type: none"> <li>• Midterm examination</li> </ul>	
JANUARY	<ul style="list-style-type: none"> <li>• 2 step Addition and subtraction</li> <li>• Word Problems (<math>\times</math> and <math>\div</math>)</li> </ul>	<b>2 weeks</b>
	<ul style="list-style-type: none"> <li>• Table of 8</li> </ul>	
	<ul style="list-style-type: none"> <li>• Write in words and figures 5000-8000</li> </ul>	<b>1 week</b>
	<ul style="list-style-type: none"> <li>• Activity calendar / mental math</li> </ul>	
FEBRUARY	<ul style="list-style-type: none"> <li>• Time</li> </ul>	
	<ul style="list-style-type: none"> <li>• Table of 9</li> <li>• Write in words and figures 8000 till 9999</li> </ul>	<b>4 weeks</b>
	<ul style="list-style-type: none"> <li>• Activity calendar/ mental math</li> </ul>	
MARCH	<ul style="list-style-type: none"> <li>• Mixed word problems(+,-,<math>\times</math>, <math>\div</math>)</li> </ul>	<b>1.5 week</b>

	<ul style="list-style-type: none"> <li>• Length</li> <li>• Money</li> <li>• Tables 2 till 9</li> <li>• Activity calendar/ mental math</li> </ul>	<b>1 week</b> <b>1.5 week</b>
<b>APRIL</b>	<ul style="list-style-type: none"> <li>• 3D shapes</li> <li>• Activity calendar/ mental math</li> </ul>	<b>1 week</b>
<b>MAY</b>	<ul style="list-style-type: none"> <li>• Final term examination</li> </ul>	

## MONTHLY BREAKUP

### AUGUST

<b>TOPICS</b> <b>NUMBERS TO 1000</b> <b>TABLES</b> <b>4 OPERATIONS (+ &amp;-)</b> <b>ACTIVITYCALENDAR/MENTAL MATH</b>				
SUB TOPICS.	LEARNING OUTCOMES	WORKBOOK	ACTIVITY	TIMELINE
Place value Odd Numbers Even numbers Comparing Standard and Expanded form	Students will be able to: -> understand about the place value, its meaning and how are they useful in our daily lives.	Workbook 2A: Page number 1,2,3,5,6,7,8,9,10 and 11.	An introduction activity will be conducted using tooth picks, polos, jellies and marshmallows.	1 Week
Tables of 2 & 3	Students will: -> revise the tables and with the help of these tables, they will be able to do dodging test session.	---	Students will be asked randomly about the tables and a candy will be rewarded if they will learn the tables.	Will be conducted randomly.
Addition  Subtraction	Students will be able to: -> solve the addition sums themselves easily -> solve the subtraction sums themselves easily	Workbook 2A: Page number 23,24,25,26,27,28, 29,30,31 ad 32	Ludo game activity.	1.5 week
Activity Calendar/Mental math	Through mental math session, students will be able to do quick mathematics problems, mentally	---	---	

**ATTAINABLE TARGETS:**

- Numbers to 1000 (understanding the place values properly)
- Concept of greater, lesser/more than and less than
- Expanded and standard form and the difference between the two
- Writing in words and figures (1000 to 5000)
- Tables of 2 and 3

Q1. Colour the even numbers blue and odd numbers yellow:

999	220	558	
	445		521
332			

Q2. Multiple choice questions:

(a)  $\_\_ \times 8 = 56$

- i) 7
- ii) 5
- iii) 6

Q3. Perform the following additions and subtractions

$\begin{array}{r} 344 \\ + 132 \\ \hline \end{array}$	$\begin{array}{r} 654 \\ + 323 \\ \hline \end{array}$	$\begin{array}{r} 987 \\ - 445 \\ \hline \end{array}$	$\begin{array}{r} 863 \\ - 752 \\ \hline \end{array}$
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**SEPTEMBER:**

<p><b>TOPICS</b>  <b>WORDS AND FIGURES</b>  <b>TABLES OF 4 &amp; 5</b>  <b>FRACTIONS</b>  <b>ACTIVITY CALENDAR/MENTAL MATH</b></p>				
SUB TOPICS.	LEARNING OUTCOMES	WORKBOOK	ACTIVITY	TIMELINE
Writing in 1000-5000 (randomly)	Students will be able to: -> understand about the place value, its meaning and how are they useful in our daily lives.		An introduction activity will be conducted using place value flash cards	1 Week
Tables of 4 & 5	Students will: -> revise the tables and with the help of these tables, they will be able to do dodging test session.	---	Students will be asked randomly to check if they have learnt the tables thoroughly.	Will be conducted randomly.

Fractions (Proper & Improper) Comparing and Ordering Fractions	Students will be able to: -> understand about the proper and improper fractions -> how to compare and arrange them		* Doughnuts and pizza Activity  * Alligator's mouth conceptual activity	3 weeks
Activity Calendar/ Mental math	Through activity calendar session, students will be able to do quick mathematics problems, mentally.	-----	----	-----

**ATTAINABLE TARGETS:**

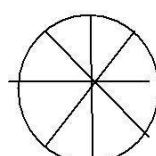
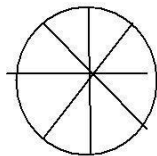
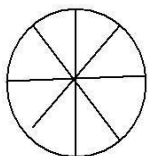
- Recognizing fractions, numerator, denominator
- Identify number of shaded parts and the number of equal parts in a shape Classify the fraction as proper and improper
- Recognize the difference between an improper fraction equal to one and an improper fraction greater than one.
- Comparing and ordering fractions, addition and subtraction of fractions. Finding the unknown fraction.

**SAMPLE QUESTIONS**

Q) Arrange the following like fraction:

1)  $1/2$ ,  $7/2$ ,  $3/2$ ,  $9/2$ ,  $4/2$

Q) Fill in the boxes. Colour to show the correct fraction.



**OCTOBER:**

<b>TOPICS</b> <b>2D SHAPES &amp; GEOMETRY</b> <b>TABLES OF 6 &amp; 7</b> <b>FRACTIONS</b> <b>ACTIVITY CALENDAR/MENTAL MATH</b>				
SUB TOPICS.	LEARNING OUTCOMES	WORKBOOK	ACTIVITY	TIMELINE
2D shapes Geometry using ruler to draw line. Angles and Ray definitions.				1.5 Week
Tables of 6 & 7	Students will: Learn the tables and they will be able to do dodging test session.	---	Students will be asked randomly to check if they have learnt the tables thoroughly.	Will be conducted randomly.
Multiplication and Division (4 digits)	Students will be able to Solve the multiplication and division sums themselves easily.		MnMs activity	1 weeks
Word problems Addition and Subtraction	Students will be able to: Know about different terminologies related to addition and subtraction		Cloud making activity	1.5 week
Activity Calendar/ Mental math	Through activity calendar session, students will be able to do quick mathematics problems, mentally.	-----	----	-----

**ATTAINABLE TARGETS:**

- Learn mathematical names for the common 2D shapes Identifying 2D shapes and their properties
- Sorting out only 2D shapes if mixed with 3D shape
- Terms such as edge, vertices and face will be explained and labeled in copies

**SAMPLE QUESTIONS:**

Q1. Find the product of:

1) 32 and 5

Q2. Divide and find the remainder:

2) 43 by 7

Q3) Basket A contains 450 fruits and basket B contains 365 fruits. How many fruits are there together?

**NOVEMBER:**

<b>TOPICS</b> <b>LINES AND CURVES</b> <b>DIVISIBILITY RULE</b> <b>ACTIVITY CALENDAR/MENTAL MATH</b>				
SUB TOPICS.	LEARNING OUTCOMES	WORKBOOK	ACTIVITY	TIMELINE
Lines and curves	Students will be able to: Understand about drawing a line and how a curve line looks like.	Page number 161, 162,163,164 and 168 in work book 2A		0.5 Week
Divisibility rule of 2 and 5	Students will be able to: Solve the division sums themselves easily and will be able to find out that is the number completely divisible by other number or not.		Group making activity	0.5 week
Activity Calendar/ Mental math	Through activity calendar session, students will be able to do quick mathematics problems, mentally.	-----	---	-----
<b>DECEMBER</b> <b>(Revision)</b> <b>MID TERM EXAMINATION</b>				


**ATTAINABLE TARGETS****DIVISIBILITY RULES**

- Learn quick math division
- Application of divisibility rule with the number ending on 2 , 5 and 10

**SAMPLE QUESTIONS:**

- Answer yes or no in the table whether the following are divisible by 2, 5 and 10

**JANUARY:**

<p style="text-align: center;"><b>TOPICS</b>  <b>2 STEP ADDITION &amp; SUBTRACTION</b>  <b>TABLES OF 8</b>  <b>WORD PROBLEMS</b>  <b>WORDS AND FIGURES</b>  <b>ACTIVITY CALENDAR/MENTAL MATH</b></p>				
SUB TOPICS.	LEARNING OUTCOMES	WORKBOOK	ACTIVITY	TIMELINE
2 Step addition and subtraction	Students will be able to: Perform addition and subtraction in 2 steps	Work book 2A Pg.no.  107- 109		1.5 Week
Word problems	Students will be able to: Know about different terminologies related to multiplication & division		-----	1 week
Tables of 8	Students will: Learn the tables and they will be able to do dodging test session.	---	Group making activity 	Will be conducted randomly.
Write in words and figures. 5000-8000	Students will be able to: -> understand about the place value, its meaning and how are they useful in our daily lives.			1 week
Activity Calendar/ Mental math	Through activity calendar session, students will be able to do quick mathematics problems, mentally.	-----	-----	-----

## 2 STEP ADDITIONS AND SUBTRACTION: ATTAINABLE TARGETS

- Solving vertically the questions related to addition and subtraction in 2 steps.

Q: Perform 2-Steps of addition and subtraction:

1)  $246 + 99 - 1$

Solution:

Step 01	Step 02
$\begin{array}{r} 246 \\ + 99 \\ \hline \end{array}$	$\begin{array}{r} 345 \\ - 1 \\ \hline \end{array}$

### SAMPLE QUESTIONS:

345

344

### WORD PROBLEMS (x and ÷) ATTAINABLE TARGETS:

Identifying key words to solve word problems related to add and sub Aligning the place value to solve the operation vertically.

### SAMPLE QUESTIONS:

- Timothy has 26 boxes of oranges. Each box holds 8 oranges. How many oranges does Timothy have?
- Each child has 99 apples. If there are 7 children, how many apples are there in total?
- The school is planning a field trip. There are 60 students and 6 seats on each school bus.
- How many buses are needed to take the trip?

### WRITING IN WORDS AND FIGURES 5000 – 8000 ATTAINABLE TARGETS:

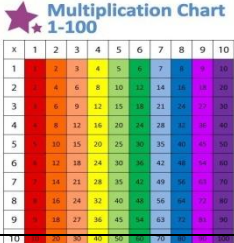
Read and understand the place value

Learning place value of each digit i:e thousands, hundreds, tens and ones

Adding and subtracting the values of ones, tens and hundreds of the two amounts given



**FEBRUARY:**

<p style="text-align: center;"><b>TOPICS TIME TABLE ACTIVITY CALENDAR/MENTAL MATH</b></p>												
SUB TOPIC	LEARNING OUTCOMES	WORKBOOK	ACTIVITY	TIMELINE								
Time	The students will be able to tell and write time to the quarter hour using analog and digital clocks	NSPM 2B Pg no	Students will make their own clocks with different colored computer papers. Using different colored papers is a great idea to help students to remember to count by five for the minute's hand.	3.5 weeks								
Table of 9	Students will be able to multiply with the help of repeated addition	-----		Will be conduct randomly								
Write in words and figures 8000 till 9999	Students will be able to: read and write four digits numbers in figures and words	-----	<p>Paste 4 digits on board and ask about unit, ten, hundred and thousand and write their place value:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>TH</td> <td>H</td> <td>T</td> <td>U</td> </tr> <tr> <td>8</td> <td>4</td> <td>9</td> <td>1</td> </tr> </table> <p>Ask students randomly to read the number. Then ask how we write these numbers in words</p>	TH	H	T	U	8	4	9	1	0.5 week
TH	H	T	U									
8	4	9	1									
Activity calendar / mental math	Students will be able to solve tricky questions of mathematics	Activity Calendar	-----									

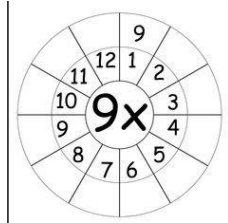
**ATTAINABLE TARGETS:**

- Read and write time Read digital time
- Difference between am and pm
- Know the time when it is half past, quarter to, quarter past. Know digital time with respect to hours and minutes

**SAMPLE QUESTIONS:**

Q. Draw the clock and show the given digital time.

1. 2:00
2. 8:00



$$3 \text{ nine} = 9+9+9 = 27$$


$$3 \times 9 = 27$$

Q: Write in words and figures

Words	Figures
8000	
	Eight thousand and eight
9999	
8801	

**MARCH:**

TOPICS MIXED WORD PROBLEMS LENGTH MONEY TABLES ACTIVITY CALENDAR/MENTAL MATH				
SUBTOPIC	LEARNING OUTCOMES	WORKBOOK	ACTIVITY	TIMELINE
Mixed word problems(+,-,x, ÷)	Students will be able to use addition, subtraction, multiplication and division to solve word problems	-----	-----	1.5 WEEKS
Length	Students will be able to measure and estimate lengths using	Work book 2B page number 93,94,95,97,102,103,104 and 105.	Group of students will be using a ruler to measure different objects.	1 week

	inches and feet.		Review with students how to use a ruler to measure feet and inches.																																																																																																																										
Money	Students will be able to: Add and Subtract money amounts involving rupees and paisa together.		Class Activity will be performed by Artificial Money.	1.5 week																																																																																																																									
Tables 2 to 9	Students will be able to multiply with the help of repeated addition		 <p>Multiplication Chart 1-100</p> <table border="1"> <thead> <tr> <th>x</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>2</td> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> <td>12</td> <td>14</td> <td>16</td> <td>18</td> <td>20</td> </tr> <tr> <td>3</td> <td>3</td> <td>6</td> <td>9</td> <td>12</td> <td>15</td> <td>18</td> <td>21</td> <td>24</td> <td>27</td> <td>30</td> </tr> <tr> <td>4</td> <td>4</td> <td>8</td> <td>12</td> <td>16</td> <td>20</td> <td>24</td> <td>28</td> <td>32</td> <td>36</td> <td>40</td> </tr> <tr> <td>5</td> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> <td>30</td> <td>35</td> <td>40</td> <td>45</td> <td>50</td> </tr> <tr> <td>6</td> <td>6</td> <td>12</td> <td>18</td> <td>24</td> <td>30</td> <td>36</td> <td>42</td> <td>48</td> <td>54</td> <td>60</td> </tr> <tr> <td>7</td> <td>7</td> <td>14</td> <td>21</td> <td>28</td> <td>35</td> <td>42</td> <td>49</td> <td>56</td> <td>63</td> <td>70</td> </tr> <tr> <td>8</td> <td>8</td> <td>16</td> <td>24</td> <td>32</td> <td>40</td> <td>48</td> <td>56</td> <td>64</td> <td>72</td> <td>80</td> </tr> <tr> <td>9</td> <td>9</td> <td>18</td> <td>27</td> <td>36</td> <td>45</td> <td>54</td> <td>63</td> <td>72</td> <td>81</td> <td>90</td> </tr> <tr> <td>10</td> <td>10</td> <td>20</td> <td>30</td> <td>40</td> <td>50</td> <td>60</td> <td>70</td> <td>80</td> <td>90</td> <td>100</td> </tr> </tbody> </table>	x	1	2	3	4	5	6	7	8	9	10	1	1	2	3	4	5	6	7	8	9	10	2	2	4	6	8	10	12	14	16	18	20	3	3	6	9	12	15	18	21	24	27	30	4	4	8	12	16	20	24	28	32	36	40	5	5	10	15	20	25	30	35	40	45	50	6	6	12	18	24	30	36	42	48	54	60	7	7	14	21	28	35	42	49	56	63	70	8	8	16	24	32	40	48	56	64	72	80	9	9	18	27	36	45	54	63	72	81	90	10	10	20	30	40	50	60	70	80	90	100	Will be conducted randomly
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**ATTAINABLE TARGETS**

**Mixed word problems (+, -, x, ÷) ATTAINABLE TARGETS:**

Students will learn applying four operations effectively when they are given mix word Problems

**SAMPLE QUESTIONS:**

1. If 228 honey bees out of 668 fly out of the hive, how many honey bees are left now?
2. A city has 3 zoos. One zoo has 213 animals, the second zoo has 68 animals and the third zoo has 177 animals. How many animals do all the zoos have in total?
3. If one forest has 178 trees. How many trees do 4 forests have?
4. 48 worksheet pages are to be distributed amongst students, such that each student receives 6 pages of worksheet. How many students get the worksheets?

## LENGTH

### ATTAINABLE TARGETS:

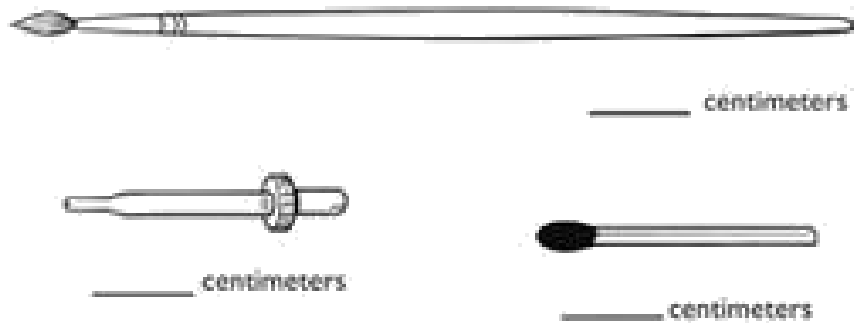
Estimate Measure Comparing length using a string

### SAMPLE QUESTIONS:

Q) Draw line of the following measurements in centimeters.

- 1) 4 cm
- 2) 6cm

Q) Measure these objects and write your observation in centimeters.



## MONEY

### ATTAINABLE TARGETS:

Introduction to rupees and currencies of few countries finding the cost of the items purchased  
Concept of the remaining balance when the bill is deducted from the amount of rupees paid.

### SAMPLE QUESTIONS:

Q.1: Add the following Amounts:

1. Rs. 50 and Rs. 100
2. Rs. 2750 and Rs. 130

Q.2: Subtract the following Amounts:

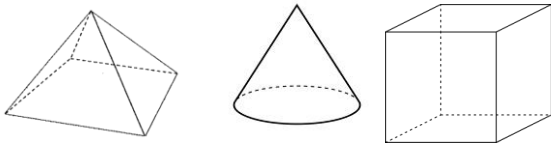
1. Rs. 900 and Rs. 400

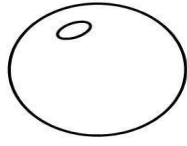
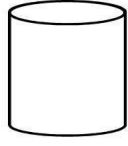
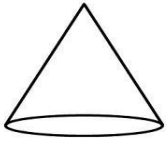
**APRIL:**

<b>TOPICS</b> <b>3D SHAPES</b> <b>ACTIVITY CALENDAR/MENTAL MATH</b>				
SUB TOPIC	LEARNING OUTCOMES	WORKBOOK	ACTIVITY	TIMELINE
3D Shapes	Students will be able to identify geometric shapes in objects they use in their daily lives.	-----	Make 3-D shapes by folding paper.	1 week
Activity calendar / mental math	Students will be able to solve tricky questions of mathematics	Activity Calendar	-----	
<b>MAY</b> <b>(Revision)</b> <b>FINAL TERM EXAMINATION</b>				

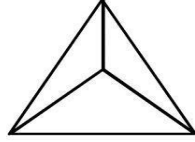
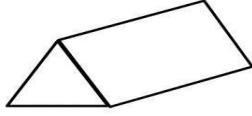
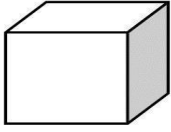
**Attainable Targets:**

- Describe, name and make 3D shapes sort 3D shapes
- Recognize objects having 3D characteristics

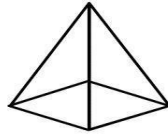
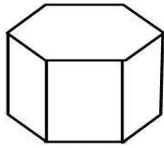
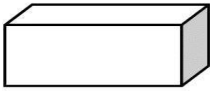
SAMPLE QUESTIONS:

Vertex = _____ Faces = _____ Edges = _____



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