

Dawood Public School
Course Outline 2017-18
Math
Class I

Books:

Lu Jitan, New Syllabus Primary Mathematics
Practice Books 1a and 1b, Singapore; Oxford University Press

Monthly Syllabus for the year 2017-18

Month	Topics	Duration
AUGUST	<ul style="list-style-type: none"> • Shapes (Basic idea) Patterns. • Random Figures(Rectangle, Square and Triangle) • Write in words and figures (Random). • Odd numbers • Even number • Table of 2 • Activity Calendar/ Mental math • Ordinal number. • Table of 2 • Activity calendar/ Mental Math 	<p>1 Week</p> <p>1 Week</p> <p>Continue the session</p> <p>3 days</p> <p>2days</p> <p>Alternate Friday</p>
SEPTEMBER	<ul style="list-style-type: none"> • 3 - digit Addition • 3 - Subtraction. • 2 digit carrying sums • Place Value • Write in words and Figures. • Table of 3 • Activity calendar/ Mental Math 	<p>1 Week</p> <p>1-Week</p> <p>1 Week</p> <p>1 Week</p> <p>Alternate Friday</p>
OCTOBER	<ul style="list-style-type: none"> • Number bond • Comparing (< ,>) (Greater and smaller) • Activity calendar/ Mental Math 	<p>2- Weeks</p> <p>1-Week</p> <p>1- Week</p> <p>Alternate Friday</p>
NOVEMBER	<ul style="list-style-type: none"> • 2 – Digits Word Problems (Addition) • 2 –digits Word Problems (Subtraction) • Activity calendar/ Mental Math • Revision for Mid Term • Revision for Midterm exams 	<p>1- Week</p> <p>1- Week</p> <p>Alternate Friday</p> <p>2- Weeks</p>
DECEMBER	Mid Term Exams	

<p style="text-align: center;">JANUARY</p>	<ul style="list-style-type: none"> • Fractions • Ascending and descending • 2- digit Subtraction (borrowing) • Simple multiplication • 4 Times Table • Activity calendar/ Mental Math 	<p style="text-align: center;">1- Week 1-Week 1-Week 1-Week Alternate Friday</p>
<p style="text-align: center;">FEBRUARY</p>	<ul style="list-style-type: none"> • Division (Picture groups) • Time • 2- digit multiplication with carrying • Activity calendar/ Mental Math 	<p style="text-align: center;">1- Week 1- Week 2- Weeks Alternate Friday</p>
<p style="text-align: center;">MARCH</p>	<ul style="list-style-type: none"> • Word problem (Multiplication) • Picture graph • Money • 5 Times Table • Activity calendar/ Mental Math 	<p style="text-align: center;">2- Weeks 1-Week 1-Week Alternate Friday</p>
<p style="text-align: center;">APRIL</p>	<p style="text-align: center;">Revision/ Activity calendar</p>	<p style="text-align: center;">3- Weeks</p>
<p style="text-align: center;">MAY</p>	<p style="text-align: center;">Final Term Exams</p>	

Syllabus Content

AUGUST

- Shapes (Basic idea), Patterns
- Write in words and figures (Random)
- Odd and Even numbers, Ordinal numbers
- 2 and 3 times table
- Mental Math
- Calendar

TOPIC	SUB TOPICS	LEARNING OUT COMES	WORK BOOK PAGES	ACTIVITY
Shapes and Patterns	Basic idea of different shapes	Students Should be able to Trace the Shapes Make pictures from Shapes Recognize shapes Make patterns	Page numbers Work Book I A 94, 143. 145-149, 151,158 159,160 162 11 -14	Introduction activity with different Objects. Draw or bring different objects for pattern learning in class room
Write in Words and Figures	Random words and figures Tens and Units Greater and Smaller numbers	Differentiate tens and units of any number Differentiate between greater and smaller numbers	Work sheets of Words and figures.	Class room Activity with colour pencils for giving the concepts of tens and units.
Odd Numbers Even Numbers		Concept of Odd Numbers Concept of Even Numbers Recognize and pick even and odd numbers from the given numbers	Work Book I B 1 - 6 Worksheets	Class room Activity Separate Even and Odd numbers from basket
Table of 2		Concept of dodging table Give spontaneous response of the questions		Draw table on board and give star in it for quick response
Activity Calendar / Mental Math		Concept of Mental math Give spontaneous response of the questions	Worksheet for oral practice	

Attainable Targets

- Recognize different shapes and patterns
- Group the shape according to size and colour of the shape
- Recognize or pick Even and Odd numbers from numbers
- Mental math ability to respond quickly.
- Quick response of dodging table
- Recognition of tens and units

Sample questions

Q. How many circles are in this picture?

Q. Complete the pattern.



Additional Resources:

www.education.com

www.pinterest.com

www.k5learning.com

September

- Place value, words and figures
- 2 digit carrying sums
- 3 digits add and sub.
- 3 Times Table
- Mental Math
- Calendar

TOPIC	SUB TOPICS	LEARNING OUTCOMES	WORK BOOK PAGES	ACTIVITY
Place Value	Hundreds ,Tens and Ones	Students should be able to: Recognize hundreds , tens and ones	Copy work Work book pages I A 22,23,24, 28, 29, 32, 33, 34,38,40,41	Draw table with cartoon characters which is specific for hundreds, Tens and Ones.
2- Digits carrying sums	Place Value Addition Number pairs	Know the number pairs Add according to place value.	Work Book I B Pages 17- 21, 29,30,33,34	
3 – Digits Addition	Addition	Concept of Addition Recognize sign of Addition	Copy Work Work Book I-B Pages 47,48	
3- Digits Subtraction	Subtraction	Concept of Subtraction Recognize sign of Subtraction	Copy Work Work Book I-B Pages 49, 50	

Attainable Targets:

Students should be able to:

Add the given numbers

Subtract the given numbers

Solve sums according to signs

Sample questions

Solve the sums.

$$\begin{array}{r} \text{T O} \\ 84 \\ + 63 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 34 \\ + 18 \end{array}$$

2 digit carry sums

Add

$$\begin{array}{r} \text{T O} \\ 53 \\ + 27 \end{array}$$

Q. Add and match the sums

$$14 + 26$$

$$22 + 32$$

$$\begin{array}{r} 5 \\ 4 \end{array}$$

$$40$$

Place value

- Write in words and figures
- Write the place value in a given box
- Write the place value of underlined or circled digit
- Guess the number

Sample questions

Q. Write the place value of the underlined digit.

a) 29 =

b) 209 =

Q. Guess the number.

a) 3 hundred 2 tens 0 ones = _

b) 2 hundred 0 tens 4 ones =

Additional Resources:

www.Mathsalamander.com

October

- Number bond
- Number sentence (horizontal)
- Comparing (<,>=)
- Smallest and Greatest
- Mental Math Calendar

TOPIC	SUBTOPICS	LEARNING OUTCOMES	WORK BOOK PAGES	ACTIVITY
Number Bond	Add with number Bond	Students Should be able to: Add the numbers with the concept of place value Make number bond according to the given picture	Work Book I A pages 22,23,24,28,29. 32,33,34,38,40,41	
Number Sentence (Horizontal)		Add according to math rule.		
Comparing	Greater than Lesser than and Equals to	Relate counting with more or less than a number. Compare two numbers	Copy work Work sheets	Class room activity on Comparing things
Smallest to greatest number		Relate with forward and backward counting		Class room Activity on Ascending and Descending Order.

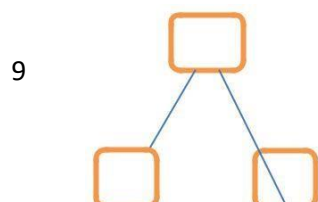
Attainable Targets:

Number Bond:

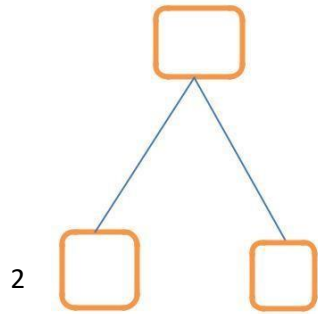
- Concept of number bond of a given number (1 to 10)
- Write the number bond by looking at the picture
- Find more than one pair of number bonds of the given number
- Write addition sentence for a given number bond
- Write the missing number in a number bond

Sample question

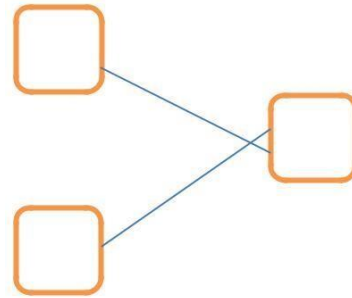
Q. Write the number bond for 9.



Q. Complete the missing number bond.



3



Number Sentence (Horizontal):

Write the answer in blank by performing the correct operation given (+,-,x)

Sample questions:

- Q. Fill in the blanks. 1. $4 \times 3 = _$
- 2. $11 + 5 = _$
- 3. $5 - 2 = _$

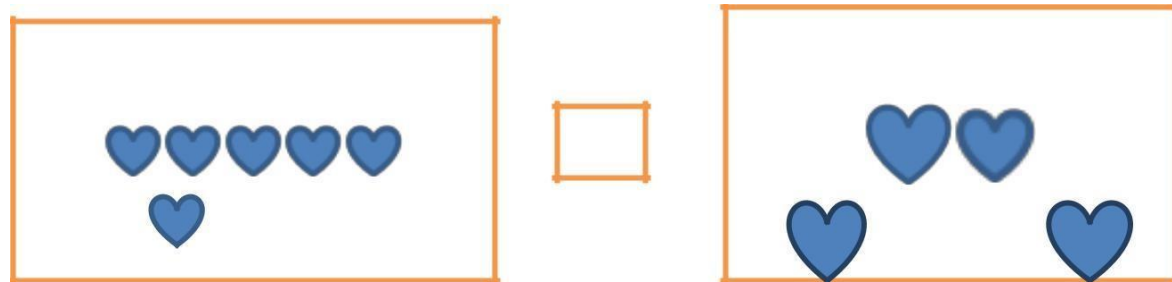
Comparing (<,>):

Compare the 2- 3 digit numbers.
Which number is less which number is more?
Put the correct sign <or>.
Compare the given things and put the correct sign.

Sample Questions:

- Q. Compare the numbers and put the correct sign in the blank <or>
- 1. 96 69 2. 104 112

Q. Compare the number of hearts in boxes then fill the blank with correct sign, < or>.



Smallest to Greatest

Compare and arrange the numbers according to the given order

Sample questions:

Q. Arrange the given numbers from the smallest to the greatest

25, 67, 45, 56

Q. Arrange the given numbers from greatest to smallest. 2. 34, 59, 71, 89

Additional Resources:

www.IXL.com
www.mathaid.com

November

- Word Problems (add. & subtraction) 2 digits
- Revision for Mid Term Exams
- Mental Math
- Calendar

TOPICS	SUB TOPICS	LEARNING OUTCOMES	WORKBOOK PAGES	ACTIVITY
WORD PROBLEMS	2- Digits Addition	Students should be able to: <ul style="list-style-type: none"> • Choose appropriate strategies to carryout calculation • Explaining terms of Addition 	Copy work	Cartoon characters will be used to explain word problems, terms of Addition
	2 – Digits Subtraction	<ul style="list-style-type: none"> • Choose appropriate strategies to carryout calculation • Explaining terms of Subtraction 	Copy Work	Cartoon characters will be used to explain word problems, terms of Subtraction

Attainable Targets:

Students will read the story of cartoon character and recognize the terms.

Make vertical sums

Perform the operations according to question.

Sample Questions:

Q1. Dora has 12 sticks and her friend Boots has 8. How many sticks have they altogether?

Q2. Micky had 10 cupcakes and he ate 4 of them. How many cupcakes are left?

Additional Resources:

www.IXL.com
www.mathaid.com

DECEMBER:**Mid Term Assessment**

JANUARY

- Fractions
- Subtraction (borrowing)
- 2 –digit simple multiplication
- Mental Math
- Calendar

TOPIC	SUB TOPIC	LEARNING OUTCOMES	WORK BOOK PAGES	ACTIVITY
Fractions	Half, Quarter fractions Coloured Parts	Students should be able to: Recognize parts in half 2- half makes a whole Divide Objects into parts Find halves and quarter of shapes and Objects.	Work Book I-B page 110 & 111 Copy Work Worksheets	Cut sandwiches and apple in a class to describe Half and Quarter.
Subtraction(Borrowing)	Add Single and Double digit numbers.	Add pairs of two digits number Taking a number from next digit.	Copy Work Work sheets	Class room activity in group.
2 – digit simple Multiplication		Understand the multiplication sign (x) Multiply 2- digits by 1- digit.	Copy work Work sheets.	

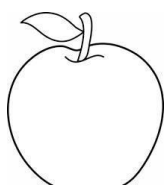
Learning Outcomes

Fractions:

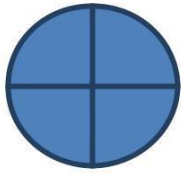
- What is fraction?
- Know half and quarter of different objects
- Divide objects into half and quarter
- Match the figure with the respective fraction
- Write fraction of the shaded part
- Colour the shape according to the given fraction

Sample Questions

Q1. Divide the apple into half.



Q2. Colour the shape according to the given fraction.



Subtraction (Borrowing):

Borrow from the partner number when needed
Show the correct borrowing when needed and subtract

Sample Question:

Q. Subtract

T O	T O
2 2	6 3
- 2 9	-1 4
_____	_____
_____	_____

2-Digit simple Multiplication:

Recognize the multiplication operator
Solve the sum vertically

Sample Question:

Q. Multiply

T	O	T	O
6	2	3	4
×	3	×	6

Ascending and Descending Order

Ascending order means smallest to the greater and descending order means greater to the smallest

Compare and arrange the numbers according to the given order

Sample questions:

Q. Arrange the given numbers in ascending order

1. 68, 53, 85, 44

Q. Arrange the given numbers in descending order. 2. 78, 90, 45, 12

Additional Recourses:

www.ixl.com
www.mathaid.com

FEBRUARY

- Picture groups
- Time
- 2-digit multiplication with carrying
- Mental Math
- Calendar

TOPIC	SUB TOPICS	LEARNING OBJECTIVES	WORK BOOK PAGES	ACTIVITY
Picture Group	Division	Students should be able to : Answer a questions by sorting data or Objects Understand Division as grouping How to share equally. Find the numbers of group of the same objects.	Work book I –B Page numbers 110., 111, 112,113.115.	Class Room activity with different objects.
Time	O' clock and Half Past	Concept of O' clock and Half Past Recognize hands of clock.	Work Book I-B pages 132 , 133 ,134,136, 137	Class Room Activity in which the students will make Clocks showing and recording time of their daily routine.
2 – Digits Multiplication with Carrying.		How to add carry in the multiplicand	Copy Work	

Learning Outcomes:

Picture group (Division)

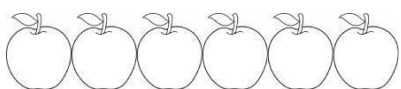
Circle to make number of groups.

Divide or make equal groups

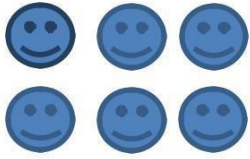
Divide the objects equally among students, box etc.

Sample Question

Q. Put the equal number of apples in each bucket.



Q. Make a group of 2.



Time

Write the time shown on the clock

Draw hands on clock for o'clock and half past.

Match the clock with correct time

Mental Math Questions:

How many numbers are there on a clock?

Which hands show minutes/ hour?

What does a clock show?

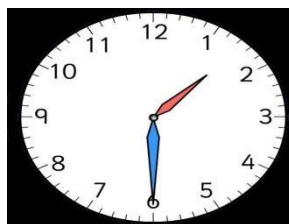
Which hand moves fast?

Sample Questions:

Q. Draw hands to show 3 o'clock.



Q. Write the time shown in the clock.



2-Digit Multiplication with carrying

Multiply 2 digit numbers with 1- digit multiplier involving carrying.

Recognize the multiplication operator.

Sample Questions

Q. Multiply.

T	O	T	O
4	6	3	5
×	4	×	3

MARCH

Word problems of Multiplication

Picture Graph

Money

Mental Math

Calendar

TOPIC	SUB TOPICS	LEARNING OUT COMES	WORK BOOK PAGES	ACTIVITY
Word Problems	Multiplication	Students should be able to : Recognize terms of word problems.	Copy Work	Class Work activity with cartoon characters to understand term bank.
Picture Graph		Read and understand the picture graph	Work Book I B Pages 157, 158, 159, 160.	
Money		Recognize Coins and Notes.	Work book I B 142, 150,151,152,153,154, 155 NSPM Work Book of KG.II	Class Room activity in which students will bring some eatables or stationery items and will learn buying and selling.

Attainable Targets:

Word Problems

Read and understand the story sum

Decide or recognize the operation to be used

Write the sum vertically

Sample Questions

Q. There are 6 candies in a box. How many candies are there in 12 boxes?

Q. There are 5 fingers on a hand. How many fingers are there in 6 hands?

Picture Graph

Read the horizontal/vertical picture graph and answer the given questions

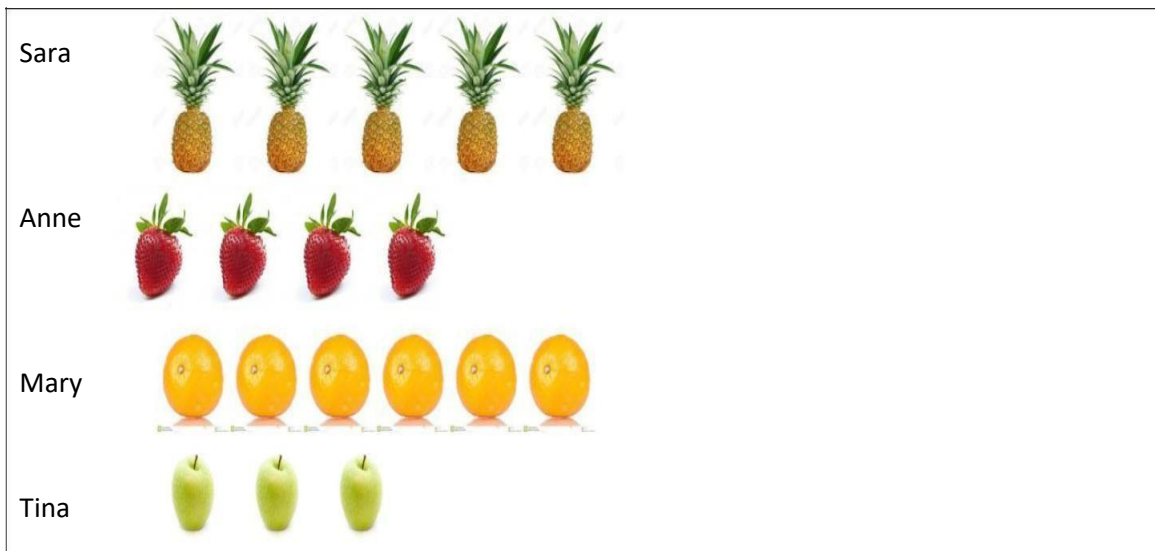
Find out the greater/lesser number of an object

Count the given objects altogether

Complete/colour/shade the picture graph to show the answer

Sample Questions

Q .Following graph shows different fruits.



1. How many pineapples are there?
2. Who has more fruits?
3. Who has least fruits?
4. How many fruits do they have altogether?

Money:

Recognize coins and notes

Add different amount of things

Sample Questions

Sam bought corn flakes and eggs from the super market. How much did he spend altogether?

Rs 24

Rs 70



Rs.  Rs. = Rs

Sam spent Rs _____altogether.

Additional Resources:

www.education.com

www.pinterest.com

www.k5learning.com

APRIL

Revision of Final Assessments

MAY

Final Assessments