

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

**CLASS: II**

**SUBJECT: MATHEMATICS**

**MONTH : APRIL**

**NO. OF DAYS:10**

**TOPIC :Ln-01 : WARM UP**

**NO. OF PERIODS:13**

<b>SUB- TOPICS</b>	<b>METHODOLOGY</b>	<b>TEACHING LEARNING MATERIALS/AIDS</b>	<b>INTERFACE</b>	<b>LEARNING OUTCOME</b>
➤ <b>Recapitulation</b>	<ul style="list-style-type: none"><li>• Inductive and Deductive</li><li>• Demonstration</li></ul>	<ul style="list-style-type: none"><li>• Place value chart</li><li>• Multiplication chart</li><li>• Number card</li></ul>	Parents will recapitulate of previous class ad guide them to use this for further subjects.	Students will learn numbers from 1 to 100 place value, expanded form, addition, subtraction, multiplication and ordinal number.

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : APRIL

NO. OF DAYS:12

NO. OF PERIODS:14

TOPIC :Ln-01 : 3-digit numbers

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Numbers from 101 to 1000</li><li>➤ 3-digit No.</li><li>➤ Abacus</li><li>➤ Number before</li><li>➤ Number after</li><li>➤ Number between</li></ul>	<ul style="list-style-type: none"><li>• Inductive and Deductive</li><li>• Demonstration method</li></ul>	<ul style="list-style-type: none"><li>• Match sticks</li><li>• Different colour beads</li><li>• Abacus</li><li>• Number blocks</li></ul>	<ul style="list-style-type: none"><li>• Parents will give numbers and asking to write different number names and help them.</li><li>• Parents will give idea using Abacus</li><li>• Parents will asking before , after and between using fingers.</li></ul>	<ul style="list-style-type: none"><li>• Student will learned numbers and number names from 101 to 1000.</li><li>• Students will learned putting numbers in right places.</li><li>• Students will learned before, after and between numbers</li></ul>

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : JUNE

NO. OF DAYS:08

TOPIC :Ln-01 : 3-digit numbers

NO. OF PERIODS:11

<b>SUB- TOPICS</b>	<b>METHODOLOGY</b>	<b>TEACHING LEARNING MATERIALS/AIDS</b>	<b>INTERFACE</b>	<b>LEARNING OUTCOME</b>
<ul style="list-style-type: none"><li>➤ Expanded from</li><li>➤ Place value and face value</li><li>➤ Formation of numbers</li></ul>	<ul style="list-style-type: none"><li>• Inductive and deductive</li></ul>	<ul style="list-style-type: none"><li>• Match sticks</li><li>• Number cards</li><li>• Place value charts</li></ul>	<ul style="list-style-type: none"><li>• Parents will give different number s and asking place value and face value of once, tens and hundreds.</li></ul>	<ul style="list-style-type: none"><li>• Students will understand different place values and face values of once, tens and hundreds.</li></ul>

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : JULY

NO. OF DAYS:05

NO. OF PERIODS:7

TOPIC :Ln-01 : 3-Digit numbers

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Comparison of numbers</li><li>➤ Greatest numbers</li><li>➤ Smallest numbers</li><li>➤ Ordering of numbers</li></ul>	<ul style="list-style-type: none"><li>• Analysing method</li><li>• Inductive method</li></ul>	<ul style="list-style-type: none"><li>• Flash cards</li><li>• Place value charts</li></ul>	<ul style="list-style-type: none"><li>• Students will compare their class test marks using concept of greater and smallest numbers.</li></ul>	<ul style="list-style-type: none"><li>• Students will clear their concept of greater and smaller using symbol (<math>&gt;</math> and <math>&lt;</math>) and increasing and decreasing number.</li></ul>

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## SPLIT UP SYLLABUS (2020-21)

**CLASS: II**

**SUBJECT: MATHEMATICS**

**MONTH : JULY**

**NO. OF DAYS:19**

**NO. OF PERIODS:21**

**TOPIC :Ln-02 : ADDITION**

<b>SUB- TOPICS</b>	<b>METHODOLOGY</b>	<b>TEACHING LEARNING MATERIALS/AIDS</b>	<b>INTERFACE</b>	<b>LEARNING OUTCOME</b>
<ul style="list-style-type: none"><li>➤ 2-Digit</li><li>➤ 3-Digit</li><li>➤ Addition stories</li><li>➤ Mental Problem</li><li>➤ Regrouping numbers(1 to 10)</li><li>➤ 2-Digit carrying over</li><li>➤ 3-Digit carrying over</li></ul>	<ul style="list-style-type: none"><li>• Activity Method</li><li>• Inductive Method</li><li>• Demonstration method</li></ul>	<ul style="list-style-type: none"><li>• Abacus</li><li>• Ganit mala</li><li>• Number cards</li></ul>	<ul style="list-style-type: none"><li>• Parents will give examples of daily life using material like marketing materials, fruits and their weight.</li></ul>	<ul style="list-style-type: none"><li>• Students will learn place value, expanded form. How to analyse word problems and using it in daily life.</li><li>• Student will learn carrying addition of 3-Digit numbers.</li></ul>

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : AUGUST

NO. OF DAYS:10

NO. OF PERIODS:13

TOPIC :Ln-03 : SUBTRACTION

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ 3- Digit numbers</li><li>➤ Subtraction stories</li><li>➤ Sum and Diff.</li><li>➤ Regrouping numbers</li><li>➤ Column subtraction</li><li>➤ Word problems</li><li>➤ Checking by add.</li><li>➤ Checking by diff.</li></ul>	<ul style="list-style-type: none"><li>• Demonstration</li><li>• Inductive and deductive</li><li>• Play way method</li></ul>	<ul style="list-style-type: none"><li>• Ganit mala</li><li>• Number cards</li><li>• Abacus</li></ul>	<ul style="list-style-type: none"><li>• Parents will give examples of different materials like match sticks, chocolates fruits ,pencils to solve sums and motivate to solve word problems by understanding.</li></ul>	<ul style="list-style-type: none"><li>• Students will learn simple subtraction and carry sums and also word problems and using subtraction in day to day life.</li></ul>

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## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : AUGUST

NO. OF DAYS:13

NO. OF PERIODS:14

TOPIC :Ln-04 : MULTIPLICATION

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Multiplication by grouping</li><li>➤ Multiplication in number line</li><li>➤ Multiplication in repeated subtraction.</li><li>➤ Table 6 to 10</li><li>➤ Properties of multiplication</li><li>➤ Story time</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method</li><li>• Inductive method</li><li>• Play way mentod</li></ul>	<ul style="list-style-type: none"><li>• Match sticks</li><li>• Candles</li><li>• Dummy of flowers</li><li>• Marbles</li></ul>	<ul style="list-style-type: none"><li>• Parents will help to find students one to more values by giving examples of daily life i.e. y distributing sweets , cakes to their family members.</li></ul>	<ul style="list-style-type: none"><li>• Students will learn basics of multiplication and they use it in their daily life.</li><li>•Students learn double digit multiplication and using in story problems.</li></ul>

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## SPLIT UP SYLLABUS (2020-21)

**CLASS: II**

**SUBJECT: MATHEMATICS**

**MONTH : SEPTEMBER**

**NO. OF DAYS:10**

**NO. OF PERIODS:12**

**TOPIC :Ln-05 : DIVISION**

<b>SUB- TOPICS</b>	<b>METHODOLOGY</b>	<b>TEACHING LEARNING MATERIALS/AIDS</b>	<b>INTERFACE</b>	<b>LEARNING OUTCOME</b>
<ul style="list-style-type: none"><li>➤ Division of equal distribution</li><li>➤ Division of repeated subtraction</li><li>➤ Division fact</li><li>➤ Mental methods</li><li>➤ Story telling</li></ul>	<ul style="list-style-type: none"><li>• Demonstration</li><li>• Play way method</li><li>• Inductive</li></ul>	<ul style="list-style-type: none"><li>• Cards</li><li>• Match sticks</li><li>• Chocolates</li><li>• Flowers</li></ul>	<ul style="list-style-type: none"><li>• Parents will help students to use division as daily life by giving y giving examples of different materials like cupcakes, chocolates and distributing them equally in their family members.</li></ul>	<ul style="list-style-type: none"><li>• Students will be able to distribute different material using division and can use division in their dally need.</li><li>• Students will ale to solve word problems and use in daily life.</li></ul>



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## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : OCTOBER

NO. OF DAYS:3

NO. OF PERIODS:5

TOPIC :Ln-06 : CARDINAL AND ORDINAL NUMBER

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Cardinal number</li><li>➤ Ordinal number</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method</li><li>• Play way method</li></ul>	<ul style="list-style-type: none"><li>• Dummy of animals</li><li>• Dummy of fruits</li></ul>	<ul style="list-style-type: none"><li>• Students will able to know the cardinal and ordinal numbers y standing in a line in school</li><li>• Parents will clear the concept of ordinal and cardinal by standing in a line when they are giving electric bill.</li></ul>	<ul style="list-style-type: none"><li>• Student will able to know the difference of cardinal and ordinal numbers and ale to find 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> of them in class test marks in school premises.</li></ul>

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## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : OCTOBER

NO. OF DAYS:06

NO. OF PERIODS:8

TOPIC :Ln-07 : EVEN AND ODD NUMBERS

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Even numbers</li><li>➤ Odd numbers</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method</li><li>• Play way method.</li></ul>	<ul style="list-style-type: none"><li>• Models of blocks</li><li>• Pair of socks</li><li>• Match sticks</li><li>• Candles</li></ul>	<ul style="list-style-type: none"><li>• Parents clear the concept of even and odd number by giving examples of different objects I their surroundings.</li></ul>	<ul style="list-style-type: none"><li>• Students will able to know the difference between Even and odd numbers and conform that odd and even number cannot be paired.</li></ul>

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## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : OCTOBER

NO. OF DAYS:09

NO. OF PERIODS:11

TOPIC :Ln-08 : FRACTION

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
Definition of Fraction ➤ One half ➤ One third ➤ One fourth	<ul style="list-style-type: none"><li>• Demonstration method</li><li>• Play way method</li></ul>	<ul style="list-style-type: none"><li>• Model of locks</li><li>• Flower petals</li><li>• Fractional cubes</li></ul>	<ul style="list-style-type: none"><li>• Parent clear the concept of fraction by giving different fruits and distributing to their family members</li><li>• Parents will motivate students to share things using fraction at home.</li></ul>	<ul style="list-style-type: none"><li>• Students will be able to understand the definition of fraction and using this by sharing food items in school recess.</li></ul>

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : NOVEMBER

NO. OF DAYS:07

NO. OF PERIODS:10

TOPIC :Ln-09 : GEOMETRY

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Plane shape-2D</li><li>➤ Solid shape - 3D</li><li>➤ Solid with round</li><li>➤ Curved surface</li><li>➤ Drawing of lines</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method</li><li>• Play way method</li><li>• Inductive method</li></ul>	<ul style="list-style-type: none"><li>• Models of solid</li><li>• Models of plane shapes</li><li>• Scale</li><li>• Wooden Ruler</li><li>• Measuring tape</li></ul>	<ul style="list-style-type: none"><li>• Parents will clear the concept of shapes by showing different items like vegetables, fruits and their surroundings.</li></ul>	<ul style="list-style-type: none"><li>• Students will be able to understand the difference of 2D and 3D figures and their properties.</li><li>• Students will be able to draw line using scale.</li></ul>

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## SPLIT UP SYLLABUS (2020-21)

**CLASS: II    SUBJECT: MATHEMATICS**

**MONTH : NOVEMBER**

**NO. OF DAYS:07**

**NO. OF PERIODS:10**

**TOPIC :Ln-13 : MONEY**

<b>SUB- TOPICS</b>	<b>METHODOLOGY</b>	<b>TEACHING LEARNING MATERIALS/AIDS</b>	<b>INTERFACE</b>	<b>LEARNING OUTCOME</b>
<ul style="list-style-type: none"><li>➤ Money changer corner</li><li>➤ Addition</li><li>➤ Subtraction</li><li>➤ Word problems</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method.</li><li>• Inductive method</li><li>• Play way method</li></ul>	<ul style="list-style-type: none"><li>• Dummy of different coins</li><li>• Dummy of different notes</li></ul>	<ul style="list-style-type: none"><li>• Parents will clear the concept of money and notes by taking them to markets.</li><li>• In market they clear the concept of add and sub.</li></ul>	<ul style="list-style-type: none"><li>• Student will able to understand the difference of coin and notes .</li><li>• Students will able to convert paise to coins and paise to coins.</li></ul>

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## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : NOVEMBER

NO. OF DAYS:11

NO. OF PERIODS:13

TOPIC :Ln-14 : TIME

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Clock and time</li><li>➤ Time wheel</li><li>➤ Calendar</li><li>➤ Season of the year</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method</li><li>• Play way method</li><li>• Inductive and deductive</li></ul>	<ul style="list-style-type: none"><li>• Analog clock</li><li>• Present year calendar</li><li>• Seasonal pictures</li><li>• Dress materials</li></ul>	<ul style="list-style-type: none"><li>• Parents will help students by showing the clock at home and clear the concept of minutes and hours.</li><li>• Parents will clear the concept of season by showing diff. cloth material they were wearing.</li></ul>	<ul style="list-style-type: none"><li>• Student will be able to say time and use this in daily periods of classes .</li><li>• Students will be able to recognise the season and in diff. seasons their dressing materials.</li></ul>

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : DECEMBER

NO. OF DAYS:6

NO. OF PERIODS:08

TOPIC :Ln-10 : MEASUREMENT OF LENGTH

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Standard unit of measuring length</li><li>➤ Addition</li><li>➤ Subtraction</li><li>➤ Word problem on length</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method.</li><li>• Inductive and deductive method</li><li>• Play way method</li></ul>	<ul style="list-style-type: none"><li>• Scale</li><li>• Wooden ruler</li><li>• Measuring tape.</li></ul>	<ul style="list-style-type: none"><li>• Parents will help students to measure their room edges y using measuring tape as well as ruler.</li><li>• By measuring they clear their concept.</li></ul>	<ul style="list-style-type: none"><li>• Students will be able to measure the different length and able to draw different length using rulers.</li></ul>

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : DECEMBER

NO. OF DAYS:06

NO. OF PERIODS:08

TOPIC :Ln-11 : Measuring of mass( Weight)

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>• Standard Unit of weight</li><li>• Addition of weight</li><li>• Subtraction of weight</li><li>• Word problem</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method.</li><li>• Inductive and deductive method</li><li>• Play way method</li></ul>	<ul style="list-style-type: none"><li>• Bricks</li><li>• Books</li><li>• Dummy of weights</li></ul>	<ul style="list-style-type: none"><li>• Parents will clear the concept of weight by taking them to the market and purchasing vegetables and fruits.</li></ul>	<ul style="list-style-type: none"><li>• Students will be able to use this concept in market without taking help from their parents and clear their concept of add and sub.</li></ul>



# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : DECEMBER

NO. OF DAYS:07

NO. OF PERIODS:08

TOPIC :Ln-11 : Measuring of capacity

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Standard Unit of capacity</li><li>➤ Addition of capacity</li><li>➤ Subtraction of capacity</li><li>➤ Word problem</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method</li><li>• Inductive and deductive</li><li>• Play way method</li><li>• Problem solving method</li></ul>	<ul style="list-style-type: none"><li>• Bucket</li><li>• Mug</li><li>• Container of measuring oil</li></ul>	<ul style="list-style-type: none"><li>• Parents will be able to clear pupils doubts by purchasing oil like petrol or milk in the market.</li></ul>	<ul style="list-style-type: none"><li>• Student will be able to understand the concept of capacity and used in their home in bucket, mugs and fruit jars</li><li>• Students will clear the concept of add and sub. In the market when they are purchasing.</li></ul>

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : JANUARY

NO. OF DAYS:06

NO. OF PERIODS:08

TOPIC :Ln-11 : Measuring of mass( Weight)

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Data in tabular form</li><li>➤ Summer uniform</li><li>➤ Understanding data</li><li>➤ Breakfast table</li></ul>	<ul style="list-style-type: none"><li>• Demonstration Method</li><li>• Play way method</li></ul>	<ul style="list-style-type: none"><li>• School uniform</li></ul>	<ul style="list-style-type: none"><li>• Parents will clear the concept of counting and juggling different items.</li><li>• By showing different items Parents help them to count and collect different item.</li></ul>	<ul style="list-style-type: none"><li>• Students will able to count correctly different items by looking pictures.</li></ul>

# ARMY PUBLIC SCHOOL GOPALPUR

## SPLIT UP SYLLABUS (2020-21)

CLASS: II SUBJECT: MATHEMATICS

MONTH : JANUARY

NO. OF DAYS:08

NO. OF PERIODS:09

TOPIC :Ln-11 : Measuring of mass( Weight)

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none"><li>➤ Patterns of shapes</li><li>➤ Patterns of Numbers</li></ul>	<ul style="list-style-type: none"><li>• Demonstration method</li><li>• Play way method</li></ul>	<ul style="list-style-type: none"><li>• Match box</li><li>• Match sticks</li><li>• Solid shapes</li><li>• Plane shapes</li></ul>	Parents will clear the concept of different objects of their home like spices box, books etc.	<ul style="list-style-type: none"><li>• Students will be able to understand the pattern concept both shapes pattern and number patterns</li></ul>