

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : APRIL

NO. OF DAYS:22

TOPIC:WARM UP

NO. OF PERIODS:08

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Recapitulation	<ul style="list-style-type: none">▪ Inductive method▪ Deductive method▪ Discussion method	<ul style="list-style-type: none">○ Discussion method○ Explanation method	<ul style="list-style-type: none">➤ Teachers will motivate parents to recapitulate of previous class.	<ul style="list-style-type: none">✓ Students will learn simple operations of addition, subtraction, multiplication and division.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : APRIL

NO. OF DAYS:22

TOPIC :Ln-1: NUMBERS AND NUMBER NAMESNO. OF PERIODS:10

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/A IDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">•Presentation of numbers on spike ABACUS•Place value•Expanded forms•Order relation•Formation of greatest and smallest numbers	<ul style="list-style-type: none">○ Inductive method○ Deductive method○ Demonstration method○ Explanation method	<ul style="list-style-type: none">▪ ABACUS▪ Place value chart▪ Flash card	<ul style="list-style-type: none">➤ Parents will use flash cards to teach their children how to find greater and smaller number.➤ Knowledge will be grown up by peer group discussion.	<ul style="list-style-type: none">✓ Students will learn how to write the number and number names.✓ Students will be able to find out place value of different digits in a number.✓ Students will learn to write the expanded forms of different numbers.✓ Students will learn the concept of making smallest and greatest numbers of different digits.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : APRIL

NO. OF DAYS:22

TOPIC:Ln-2 :ROMAN NUMERALS

NO. OF PERIODS:02

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Roman numerals	<ul style="list-style-type: none">○ Inductive method○ Deductive method○ Activity method	<ul style="list-style-type: none">▪ Matchsticks▪ Teachnext	✓ Parents will ask different questions on Roman numbers using daily use things like clock.	✓ Students will know the Roman numbers for the Hindu-arabic numbers.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : JUNE

NO. OF DAYS:08

TOPIC :Ln-3: ADDITION

NO. OF PERIODS:07

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Addition with and without carrying• Word problems• Estimating the sum	<ul style="list-style-type: none">▪ Inductive method▪ Deductive method▪ Problem solving method	<ul style="list-style-type: none">○ ABACUS○ Teachnext	<p>➤ Parents will enhance the problem solving ability of children on addition taking daily life situations like during marketing, accounting.</p>	<ul style="list-style-type: none">✓ Students will understand the concept of addition.✓ Students will solve word problems based on addition.✓ Students will estimate the sum.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : JULY

NO. OF DAYS:24

TOPIC :Ln-4 : SUBTRACTION

NO. OF PERIODS:07

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Subtraction with or without borrowing• Word problems• Estimating the difference	<ul style="list-style-type: none">○ Inductive method○ Deductive method○ Problem solving method	<ul style="list-style-type: none">▪ ABACUS▪ Teachnext	✓ Parents will enhance the problem solving ability of children by correlating the concept with day to day life calculations.	<ul style="list-style-type: none">✓ Students will understand the concept of subtraction.✓ Students will solve word problems based on subtraction.✓ Students will estimate the difference.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV

SUBJECT: MATHEMATICS

MONTH : JULY

NO. OF DAYS:24

TOPIC:Ln-5: MULTIPLICATION

NO. OF PERIODS:11

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/ AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Multiplication by:<ul style="list-style-type: none">○ 1-digit number○ 2-digit number○ 3-digit number• Multiplication by tens and hundreds• Word problems• Estimating the product	<ul style="list-style-type: none">• Inductive method• Deductive method• Problem solving method	<ul style="list-style-type: none">○ Multiplication table○ Chart paper○ Teachnext	<p>➤ Knowledge will be grown up by parents applying the concept of multiplication in day to day life.</p>	<ul style="list-style-type: none">✓ Students will understand that multiplication is repeated addition.✓ Students will be able to multiply different numbers with 1-digit, 2-digit and 3-digit numbers.✓ Students will be able to solve word problems based on multiplication.✓ Students will be able to estimate the product.
<i>PRE-MID TERM TEST</i>				

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : AUGUST

NO. OF DAYS:23

TOPIC :Ln-6 : DIVISION

NO. OF PERIODS:11

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Properties of division• Division by: 1-digit number 2-digit number• Division by 10 and 100• Word problems	<ul style="list-style-type: none">• Inductive method• Deductive method• Problem solving method• Explanation method	<ul style="list-style-type: none">○ Chart paper showing properties of division○ Multiplication table chart paper	<ul style="list-style-type: none">➤ Parents will correlate the concept of division with day to day life calculations and will teach their children how to solve.	<ul style="list-style-type: none">✓ Students will understand the concept of division.✓ Students will be able to divide different numbers by 1-digit and 2- digit numbers.✓ Students will solve word problems on division.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV

SUBJECT: MATHEMATICS

MONTH : AUGUST

NO. OF DAYS:23

TOPIC :Ln-14 : GEOMETRY

NO. OF PERIODS:11

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Line and line segment• Polygon and its types• Circle• Measuring and drawing a line segment• Perimeter and area of a figure• Solids• Symmetry	<ul style="list-style-type: none">○ Inductive method○ Deductive method○ Problem solving method○ Explanation method○ Activity method	<ul style="list-style-type: none">▪ Geometry box▪ Cube, cuboid shaped objects▪ Cone, cylinder▪ Teachnext	<p>➤ Parents will enhance the knowledge of geometrical concepts taking the surrounding objects.</p>	<ul style="list-style-type: none">✓ Students will be able to draw and measure line segments.✓ Students can draw circles of different radii.✓ Students will be able to find out the perimeter and area of different figures.✓ Students will be able to draw symmetry lines of different symmetrical objects.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS: IV SUBJECT: MATHEMATICS

MONTH : SEPTEMBER

NO. OF DAYS:15

TOPIC :Ln-7 : FACTORS AND MULTIPLES

NO. OF PERIODS:08

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Properties of factors• Method of finding factors• Prime and composite numbers• Even and odd numbers• Common factors• Properties of multiples• Common multiples	<ul style="list-style-type: none">▪ Activity method▪ Inductive method▪ Deductive method▪ Explanation method	<ul style="list-style-type: none">○ Teacnext○ Chart paper showing properties of factors and multiples	<p>➤ Parents will correlate the concept of factor and multiple with daily life by taking examples of arrangement of different things.</p>	<ul style="list-style-type: none">✓ Students will be able to find out factors and multiples of different numbers.✓ Students will know prime number, composite number, even and odd number.✓ Students will be able to find out common factors and common multiples.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : SEPTEMBER

NO. OF DAYS:15

NO. OF PERIODS:09

TOPIC :Ln-8 : COMMON FRACTIONS

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Fraction of a whole and a collection• Equivalent fractions• Like and unlike fractions• Unit fractions• Order relation in fractions• Comparison, addition, subtraction of like fractions• Word problems	<ul style="list-style-type: none">○ Inductive method○ Deductive method○ Explanation method○ Problem solving method○ Activity method○ Laboratory method	<ul style="list-style-type: none">▪ Fraction bars▪ Origami▪ Fraction kits	<p>➤ Parents will enhance the knowledge of their children by applying the concept of common fraction in daily life calculations.</p>	<ul style="list-style-type: none">✓ Students will understand the concept of fraction.✓ Students will know about different types of fractions.✓ Students will be able to add, subtract and compare like fractions.✓ Students will be able to solve word problems.
MID TERMTEST				

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : OCTOBER

NO. OF DAYS:18

NO. OF PERIODS:04

TOPIC :Ln-16 : PATTERNS

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AID S	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Number patterns• Patterns in addition and subtraction• Patterns in multiplication and division• Casting out nine	<ul style="list-style-type: none">○ Demonstration method○ Activity method○ Inductive method○ Deductive method	<ul style="list-style-type: none">▪ Teachnext▪ Chart paper	<ul style="list-style-type: none">➤ Parents will teach different patterns and will enhance the capacity of identifying the pattern and how to complete a pattern.➤ Parents will teach different concepts required for identifying the patterns.	<ul style="list-style-type: none">✓ Students will be able to identify the patterns and can complete the pattern.✓ Students can check their answers of different operation by casting out nine method.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : OCTOBER

NO. OF DAYS:18

NO. OF PERIODS:08

TOPIC :Ln-10 : MONEY

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">•Addition of money•Subtraction of money•Multiplication of money•Division of money	<ul style="list-style-type: none">▪ Inductive method▪ Deductive method▪ Laboratory method▪ Explanation method▪ Discussion method	<ul style="list-style-type: none">➤ Chart paper showing different currencies of India➤ Teachnext	<ul style="list-style-type: none">➤ Parents will correlate the concept of money in daily life calculations.	<ul style="list-style-type: none">✓ Students will be able to solve word problems based on money.✓ Students will be able to convert rupees into paisa and vice versa.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : NOVEMBER

NO. OF DAYS:23

NO. OF PERIODS:08

TOPIC :Ln-13 : MEASUREMENT OF TIME

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Reading time• Use of a.m and p.m.• 24-hour clock time• Time duration of an activity• Interpreting a calendar• Calculating days between 2 dates• Writing dates in short form	<ul style="list-style-type: none">○ Demonstration method○ Discussion method○ Activity method○ Inductive method○ Deductive method	<ul style="list-style-type: none">▪ 12-hr clock▪ 24-hr clock▪ Teachnext	<ul style="list-style-type: none">➤ Parents will make their children practise reading time in different clocks and calculating days between two dates.	<ul style="list-style-type: none">✓ Students will be able to read time in different clocks.✓ Students will be able to convert 12hr clock time to 24-hr clock time and vice versa.✓ Students will be able to calculate no. of days between two dates.✓ Students will be able to write dates in short form.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT:MATHEMATICS

MONTH : NOVEMBER

NO. OF DAYS:23

TOPIC :Ln-16 : DATA HANDLING

NO. OF PERIODS:02

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Bar graph• Reading and interpreting a bar graph	<ul style="list-style-type: none">○ Inductive method○ Deductive method○ Demonstration method○ Explanation method	<ul style="list-style-type: none">▪ Graph paper▪ Teachnext	<ul style="list-style-type: none">➤ Parents will enhance the ability of representing data in bar graphs.	<ul style="list-style-type: none">✓ Students will be able to represent different data in pictographs and bar graphs.✓ Students will be able to interpret a bar graph.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS: IV SUBJECT: MATHEMATICS

MONTH : DECEMBER

NO. OF DAYS:18

TOPIC :Ln-10: MEASUREMENT OF WEIGHT

NO. OF PERIODS:08

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">•Addition and subtraction of weight•Multiplication and division of weight	<ul style="list-style-type: none">▪ Inductive method▪ Deductive method▪ Demonstrati on method▪ Explanation method	<ul style="list-style-type: none">○ Different weights○ Teachnext	<ul style="list-style-type: none">➤ Parents will correlate the concept of measurement of weight with daily life calculations.	<ul style="list-style-type: none">✓ Students will be able to convert one unit of weight to another unit and vice versa.✓ Students will be able to solve word problems based on the topic.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT: MATHEMATICS

MONTH : DECEMBER

NO. OF DAYS:18

TOPIC :Ln-11 : MEASUREMENT OF CAPACITY

NO. OF PERIODS:05

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Addition and subtraction of capacity measures• Multiplication and division of capacity measures	<ul style="list-style-type: none">○ Demonstration method○ Discussion method○ Explanation method○ Inductive method○ Deductive method	<ul style="list-style-type: none">▪ Teachnext	<ul style="list-style-type: none">➤ Parents will correlate the concept of measurement of capacities with daily life calculations.	<ul style="list-style-type: none">✓ Students will be able to convert one unit of capacity to another unit and vice versa.✓ Students will be able to solve word problems based on the topic.

POST-MIDTERM TEST

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT:MATHEMATICS

MONTH : JANUARY

NO. OF DAYS:23

TOPIC :Ln-12 : MEASUREMENT OF LENGTH

NO. OF PERIODS:10

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Expressing bigger units in terms of smaller units and vice versa• Addition and subtraction of length measures• Multiplication and division of length measures	<ul style="list-style-type: none">▪ Demonstration method▪ Explanation method▪ Inductive method▪ Deductive method	<ul style="list-style-type: none">▪ Teachnext▪ Different scales	<ul style="list-style-type: none">➤ Parents will correlate the concept of measurement of length with daily life calculations.	<ul style="list-style-type: none">✓ Students will be able to convert one unit of length to another unit and vice versa.✓ Students will be able to solve word problems based on the topic.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV SUBJECT:MATHEMATICS

MONTH : JANUARY

NO. OF DAYS:23

TOPIC :Ln-17 : LET US GET READY FOR EXAMINATION

NO. OF PERIODS:10

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
<ul style="list-style-type: none">• Questions from previous chapters	<ul style="list-style-type: none">○ Discussion method○ Explanation method○ Inductive method○ Deductive method	<ul style="list-style-type: none">○ Teachnext	<ul style="list-style-type: none">➤ Parents will make their children practise all varieties of problems from previous chapters.	<ul style="list-style-type: none">✓ Students will be able to solve varieties of problems from previous chapters.

ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS:IV

SUBJECT: MATHEMATICS

MONTH : FEBRUARY

NO. OF DAYS:22

TOPIC :REVISION

NO. OF PERIODS:22

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME

