



Modern International School  
Sec-19, Dwarka, New Delhi

**Class-VI**

**SESSION -2020-21**

**SUMMER HOLIDAYS**

**Dear Parents and students**

My humble greetings to all of you.

We have together as a team completed the innovative endeavour of digital online teaching for our children in the stressful and testing times of national lockdown during COVID-19.

I congratulate you for your patience, perseverance and support in making digital teaching learning process a success.

The students need a much awaited break to prepare themselves further to cope with the uncertainty that surrounds us due to the pandemic.




# Holiday Homework

## Mathematics

### PART -A

**Directions:** Choose your own homework! You must choose at least three activities in a tic tac toe design. Color in each box as you complete each assignment. Have fun!

<p><b>Math Formulary / Dictionary</b></p> <p>Ever thought of a Math Dictionary / Formulary of your own? Try making one with terms you can explain the best and put some formulas which may always found difficult to remember. You may chose pictures to describe them.</p>	<p><b>FracToDec-Online games</b></p> <p><a href="http://goo.gl/c1lr9v">http://goo.gl/c1lr9v</a>  <a href="http://goo.gl/2q8u10">http://goo.gl/2q8u10</a></p>	<p><b>ON SALE!</b></p> <p>Choose a flyer / brochure of a departmental store listing various products on discounted prices and select 5 items. Cut them out and glue them in. What is their original price? What is their discounted price? Find the discount in % (out of 100). Work out how much money you would save (the difference for each)?</p>
<p><b>Polygon Capture</b></p> <p>Draw and cut various polygons in difference sizes and colors to make your own art piece.</p> 	<p><b>Prime numbers</b></p> <p>Prime numbers play a very important role in mathematics, since they can't be divided any further. They are like the 'atoms' of numbers. Eratosthenes. Explore and use it to find the <u>price Numbers less than 100</u>? You will need a grid of numbers from 1 to 100. You may use an old snake and ladder board.</p>	<p><b>Calculator-Online games</b></p> <p><a href="http://goo.gl/vCbjhL">http://goo.gl/vCbjhL</a>  <a href="http://goo.gl/cokUI6">http://goo.gl/cokUI6</a></p>
<p><b>Number pyramid</b></p> <p>Last night I was thinking about a large number pyramid. Unfortunately I spilled my coffee, and I lost many of the numbers – only 5 remained legible. I was thinking about it for some time, and I think it is possible to reconstruct the whole pyramid using only those 5 numbers! Fill the bricks of pyramid with numbers such that, the top brick would be sum of the two bricks under it.</p>	<p><b>Money, Money, Money ....</b></p> <p><b>WHO'S THAT?</b>          Who are the people on our banknotes? Choose ONE of them and research what they are famous. Why do you think they were chosen to be represented on our currency?</p> <p><b>MONEY MAKER:</b>          Create a new Indian coin or banknote. Illustrate the front and back. Explain why you chose the person, bird, animal, plant, pattern, value etc.</p> <p><b>Rhyming the Money:</b>          Brainstorm as many ways to</p>	<p><b>Tic tac toe</b></p> <ol style="list-style-type: none"> <li>1. Draw a nine square tic-tac-toe grid on each of the sheets of white paper. Next, arrange the sheets of paper into a 3x3 grid with the tic tac toe grids facing up.</li> <li>2. Then, write a random problem in each of the 81 spaces. For example: <math>3 \times 5 + 5 = ?</math></li> <li>3. You and your friend take turns trying to solve the various problems contained within the grids. If either player can successfully solve a problem, they can put either an X or an O in the square.</li> <li>4. Whoever gets tic tac toe on</li> </ol>

	<p>describe money using poetry, eg. Simile, metaphor, alliteration, adjectives. Now try to write a poem using some of them.</p>	<p>a given sheet by solving three problems in a row on a given grid can turn the sheet over and mark it with an X or an O. To win, a child must successfully get three sheets in a row.</p>
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Q.1 Fill in the blanks:

- If the product of two whole numbers is zero then \_\_\_\_\_ of them will be zero.
- Every natural number except \_\_\_\_\_ has a predecessor.
- If we add the number \_\_\_\_\_ to the collection of natural numbers, we get the collection of whole numbers
- Place value of 7 in 3627992 is \_\_\_\_\_
- Expanded form of 3920671 is \_\_\_\_\_
- Number name of 63728729 in International system of numeration is \_\_\_\_\_
- \_\_\_\_\_ is the smallest whole number
- Whole numbers are closed under \_\_\_\_\_ and \_\_\_\_\_
- Division by \_\_\_\_\_ is not defined
- If we add \_\_\_\_\_ to a number, we get its successor
- 786 when estimated to be nearest tens is \_\_\_\_\_ and when estimated to the nearest hundred is \_\_\_\_\_

Q.2 Medicine is packed in boxes, each weighing 5kg 600g. How many such boxes can be loaded in a van which cannot carry beyond 260kg?

Q.3 A student multiplied 1234 by 67 instead of multiplying by 76. By how much was his answer lesser than the correct answer.

Q.4 Sunny is a famous cricket player. He has so far scored 8932 runs in test matches. He wishes to complete 10,000 runs. How many more runs does he need?

Q.5 Starting from the smallest 9 digit number, write the next five numbers in the ascending order.

Q.6 Write the predecessor of the following numbers:

- a) 72731731
- b) 3932802201

Q.7 Write the successor for the following numbers:

- a) 32891210
- b) 98752122

- Q.8 Write the following in roman numerals”
- a) 329
  - b) 98
  - c) 121
- Q.9 Write the following in Hindu – Arabic system of numeration:
- a) CCCXL
  - b) LXXXVI
  - c) CDXLVI
  - d) XCIX
- Q.10 The canteen charge Rs.50 for lunch and Rs.20 for milk for each day. How much money do you spend in 4 days on these things?
- Q.11 Simplify by using suitable properties (also state them):
- a)  $71 \times 56 + 29 \times 56$
  - b)  $135 \times 52 + 135 \times 48$
  - c)  $16825 \times 16825 - 16825 \times 6285$
  - d)  $569 \times 17 + 569 \times 13 + 569 \times 70$
- Q.12 If the product of two whole numbers is 1, can we say that one or both of them will be 1? Justify through examples.
- Q.13 Simplify by using suitable rearrangement:
- a)  $4 \times 927 \times 25$
  - b)  $250 \times 60 \times 50 \times 8$
- Q.14 If you are on a diet and have a breakfast containing 150 calories, a lunch consisting of 350 calories, and a dinner consisting of 1000 calories, then find the sum of the calories consumed that day.
- Q.15 At a certain school each classroom contains 32 students. How many classrooms will you need for 384 students?

## PART B – WORKSEET

### Fill in the blanks:

- 1) Mathematics is the study of \_\_\_\_\_
- 2) 1,2,3,4,5 ..... numbers are known as \_\_\_\_\_
- 3) 0,1,2,3,4 ..... numbers are known as \_\_\_\_\_
- 4) ....-4, -3, -2, -1, 0, +1, +2, +3, +4 ..... are known as \_\_\_\_\_ or \_\_\_\_\_
- 5) Zero is neither \_\_\_\_\_ or \_\_\_\_\_
- 6) One million four hundred and eight thousand, nine hundred and fifty-seven \_\_\_\_\_  
\_\_\_\_\_ (Write in numerals)
- 7) Seventy lakh, eighty three thousand seven hundred and nine \_\_\_\_\_ (Write in numerals)
- 8) The place value of a digit depends on its \_\_\_\_\_ in the number in relation to other numbers.
- 9) The face value of a digit in a number is the \_\_\_\_\_ itself.
- 10) If a number's face value and place value are same, then it is in the \_\_\_\_\_ place.

### State True or False:

1	Zero is the smallest integer.	
2	Every integer has a successor as well as predecessor	
3	An integer is less than all those integers which lie to its left	
4	An integer is greater than all the integers that lie to its left	
5	To add an integer over to the right on the number line	
6	To subtract a negative number move to the right on the number line (Write in numerals)	
7	We can add the negative numbers	
8	-6 is the opposite of 6	
9	Division by zero is not defined	
10	In subtraction and division, order of operations, is not important.	

### Rearrange the numbers and evaluate :

No.	Question	Rearrangement	Answer
1	$974 \times 17 + 974 \times 3$	$947 (17+3) = 947 \times 20$	18940
2	$965 \times 7 + 965 \times 13$		
3	$379 \times 28 - 379 \times 18$		
4	$3456 \times 987 + 3456 \times 13$		
5	$4238 \times 1836 - 4238 \times 836$		

### Evaluate by rearranging : (Be mindful of the signs)

In a stadium 94538 spectators were there to watch a cricket match. Estimate this number to the nearest (i) tens (ii) hundreds (iii) thousands (iv) ten thousands

Drawing loops show the following operation on the number line

(a)  $(+7) + (+5) =$



(b)  $(-7) + (+5) =$

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(c)  $(-3) + (-4) =$

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(d)  $(+5) + (-7) =$

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### Models and charts according to Roll Numbers

Roll No. 1 to 10      3D shapes (any 5), Chart properties of whole numbers

Roll No. 11 to 20      3D shapes (any 5 objects), Chart – draw different types of triangles according to shapes and size

Roll No. 21 to 30      3D shapes geometry objects, Chart – Make the formulas chart (any chapter of your text book)

### हिंदी

क्रमांक	विषय	रचनात्मक कार्य	समय	कौशल अभिव्यक्ति
1	वह चिड़िया जो	<ol style="list-style-type: none"><li>चिड़िया का चित्र बनाकर उसके लिए उचित विश्लेषण शब्दों का प्रयोग कीजिए।</li><li>"यदि मैं पक्षी होता तो" विषय पर दस वाक्य लिखिए।</li><li>व्यर्थ की वस्तुओं का इस्तेमाल करते हुए चिड़िया का घोंसला तैयार कीजिए। घोंसला बनाने की विधि भी लिखिए।</li></ol>	10 मिनट 15 मिनट 20 -30 मिनट	व्याकरणिक क्षमता विचारात्मकता भावाभिव्यक्ति लेखन कौशल सृजनात्मकता
2	बचपन	<ol style="list-style-type: none"><li>बचपन पाठ में आये अंग्रेजी शब्दों को ढूंढ कर लिखिए।</li><li>निम्नलिखित शब्दों की सहायता से एक कविता लिखिए- [बचपन, खिलौने, माँ, चाँद-तारे, परियाँ, प्यार, घर, खेल, दोस्त, कपड़े]</li></ol>	10 मिनट 20 मिनट	खोज प्रवर्ति का विकास, शब्द भंडार में वृद्धि
3	नादान दोस्त	<ol style="list-style-type: none"><li>"नादान दोस्त" कहानी के अलावा प्रेमचंद की किस कहानी ने आपको प्रभावित किया और क्यों? कारण के साथ स्पष्ट कीजिए।</li></ol>	20 मिनट	स्वाध्याय पठन कौशल सजगता

1 किसी कहानी पुस्तक में से कोई भी एक अपनी मनपसंद कहानी चित्र सहित लिखें ।

2 अपने अनुक्रमांक के अनुसार दिए गए विषय पर सुंदर-साचार्ट बनाएँ:-

अनुक्रमांक नंबर	विषय
1 से 8 तक	भाषा
9 से 16 तक	वर्ण-विचार
17 से 24 तक	संज्ञा
25 से 32 तक	पर्यायवाची

3 बाल राम कथा के आधार पर आपको कौन-सा पात्र सबसे अच्छा लगता है और क्यों अपने शब्दों में लिखिए

4 हिंदी समाचार पत्र से कोरोना वायरस से संबंधित समाचार से एक कोलाज A-3 सीट पर बनाएँ ।

5 अपने मनपसंद किसी एक खेल के विषय में चित्र सहित चार्ट पर लिखिए ।

### ***ENGLISH***

1. We all are a part of living history. It will be talked about for generations to come. Schools are closed, sports are cancelled... ..on a global level. Make a diary entry of the days of quarantine, support it with photographs. You can also make a video journal.
2. Make a list of 50 verb forms and learn them for eg.  
Verb    past form    past participle  
  
Go        went        gone
3. Imagine yourself as a bird and make a thank you card on a A - 3 sheet for corona virus for blessing you with a pollution free environment.
4. Story books, apart from entertaining the child helps them in various ways such as -
  - Vocabulary expression
  - Knowledge
  - Stress reduction
  - Better writing skills

' THE BLUE UMBRELLA ' by Ruskin Bond

Make a book review covering the following points :

- About the Author
- Theme
- Characters
- Critical Reviews

## SCIENCE

1. Make a working model of torch using simple circuit.
2. Make a table mat or coaster with the help of coloured paper using weaving technique.
3. Make a Bag by using fabric which we get from plants or animals such as Cotton, Jute, Silk etc.
4. Make a well labelled Chart of Balanced Diet

## COMPUTER

1. Make a Presentation on Internet of things by using Power point.
2. Make an ATM Machine by using recycled items.

## ART & CRAFT

1. Make a picture collage, of different things you came across during the lockdown due to Covid-19.
2. Make an Octopus out of waste fabric.  
Or  
Make a Caterpillar out of waste fabric.
3. Make a hanging flower pot out of waste material.

## *Social Studies*

- Q.1 Prepare a short notes on planets in the solar system.  
Q.2 On the outline map of India label the states, capitals and the union territories.  
Q.3 Prepare the list of Prime Ministers and Presidents from 1947 till now in India.  
Q.4 Draw and label the solar system.  
Q.5 Collect the headlines from the newspaper and paste it in scrapbook.

## INNOVATIVE ACTIVITY :

- Assume yourself the writer of an English Grammar book and then prepare a well developed portion of grammar covering “ APPLICATION AND UTILITY OF VOWELS IN WORD FORMATION”
- “ चूँकि, हिंदी में मात्राएँ हैं, अतः इस वैज्ञानिक युग में, हिंदी लेखन में मात्र एक स्वर “अ ” से काम चल सकता है ।” इस कथन के पक्ष और विपक्ष में विश्लेषण और आलोचना करें ।