ST . MARY PUBLIC SCHOOL
CLASS IX
HOLIDAY HOMEWORK.

AS THE MUCH AWAITED SUMMER VACATION KNOCKS ON THE DOOR , YOUR TEACHERS HAVE DESIGNED VARIOUS ACTIVITIES FOR YOUR SUMMER BREAK.THESE ACTIVITIES ARE MAINLY CENTRED ON KEEPING YOU SAFE AMIDST THE PANDEMIC.

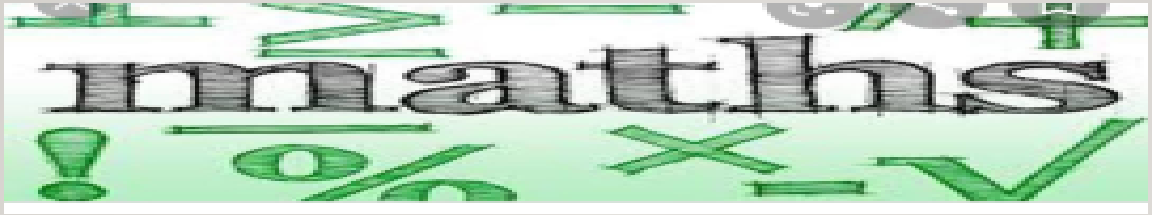
A LOT OF EMPHASIS HAS HAS BEEN LAID ON DIFFERENT HYGEINIC MEASURES LIKE HAND WASHING , WEARING MASKS AND SOCIAL DISTANCING . THESE EASY YET EFFECTIVE HABITS HAVE BECOME INDISPENSABLE PART OF OUR DAILY LIFE.

IN ORDER TO OVERCOME THE SETBACK ,LET US ALL HOLD EACH OTHERS HAND AND COME OUT OF THIS PHASE SMOOTHLY AND SAFELY

....STAY HEALTHY,STAY SAFE .....

- Do the following in your Goyal assignment book
- Factual passage- page no a9,12,21 Assignment 3,5, 10
- Discursive passage - page no a 32 ,35,36 assignment 5,7,8
- Diary entry - page No b1-30,34 assignment 2,5
- Story writing-page no B1-65,73 assignment 9 ,14
- Gap filling-page no B2-60,61,62 assignment 10,1B,c,d,e,f,g,h,i
- Dialogue completion-page no B2 64,65,66 assignment 10,2b,c,d e,F,g
- Editing errors-page no b2 68,69 assignment 10,3b,c
- Editing omissions –page no B2 73,74 assignment 10.3l
- Sentence transformation-page no B2 79,80 assignment 10.5a

1. अलंकार की परिभाषा तथा उसके भेदों की परिभाषाएं उदहारण साहित लिखिए।
2. समास की परिभाषा तथा उसके भेदों की परिभाषाएं उदहारण साहित लिखिए।
3. ‘ तालाबंदी का हमारे जीवन पर प्रभाव’ विषय पर एक निबन्ध लिखिए।
4. अपने शहर मे तालाबंदी के दौरान महसूस की जाने वाली कठिनाईयां के सबंध में अपने मित्र को पत्र लिखिए।



PLEASE SEE ATTACHED PDF GIVEN AT THE ENDO

1. Find out about any one revolutionary figure in French revolution . write a short biography of him/her. Draw/ paste picture.

2. Read the chapter thoroughly And learn questions and answers with back exercise.

- History: the French revolution
- Geography: india ,size and location
- Economics: the story of village Palampur

3 do text book questions answers of economics. With back exercise In notebook

4. Do the disaster management project which was give an earlier. Those who completed need not to do it again.

1. Carry out the following osmosis experimen:

:Take four peeled potato halves and scoop each one out to make potato cups. One of these potato cups should be made from a boiled potato. Put each potato cup in a trough containing water. Now,

- Keep cup a Empty
- Pot one teaspoon sugar in cup b.
- Put one teaspoon salt in cup c .
- Put one teaspoon sugar in the boiled potato cup d .

Keep these for 2 Hours.then observe the four potato sups and answer the following.

a. Explainn why water gathers in the holllowed portion of b and

B why is potato A necessary for this experiment

C Explain Why water does not gather in the holllowed out portions of A an

2. Experiment

Experiment no 1,2,3,4,5and7 to be written in the science lab manual book

Format- aim, materials, procedure, conclusion to be written on the rulled side of the book diagrams at the blank side. No need of writing theory.

note see pdf end for science work sheet.

6. ART

Instructions- Use cartridge sheet of size A-3(medium coloured)

1. Compostion Based on Any two Indian folk painting.

- Madu bani painting (bihar)
- manjuSha Painting(Bihar)
- Warli painting(Maharashtra)
- Gond painting(Madhya Pradesh)

2.Make poster on the following topic (use A 3 sheet

- Swatchh bharat abhiyan
- Save water
- Corona viruse awarenes

3. One best out of waste art work (photo fram,pen stand,wall ha)ir

4. Make a canvas painting

5. Draw Any two portrait Of your inspiration

6. Do the following work in file from your book

- 3 still life
- Bani thani (refer to page 65)
- Zen tangle art (Refer to page no 97)

7. Decrote and design two handmade facemask

PRACTICAL FILE WORK

1. WORD PROCESSOR

-CREATE A CLASS TIMETABLE IN LANDSCAPE ORIENTATION.

- TAKE A POEM FROM YOUR ENGLISH BOOK . FORMAT THE POEM WITH DIFFERENT FORMATING OPTIONS IN WORD PROCESSOR.
- MAKE A POSTER ON ONLINE CLASSES.
- MAKE YOUR OWN RESUME (BIO DATA) USING TAB SETTINGS

BRING HARD COPY AS WELL AS SOFT COPY

2.SPREADSHEET

CREATE A CLASS ONLINE RESUL IN THE EXCEL SHEET

BRING HARD COPY AS WELL AS SOFT COPY.

3. DIGITAL PRESENTATION

ROLL NO (1-10) TOUR AND TRAVEL)

ROLL NO (11-20) POLLUTION

ROLLNO(21-30)SAVE WATER)

ROLL NO (31-45) DELHI METRO

MAKE AT LEAST 10 TO 12 SLIDE

USE ALL CONCEPTS AND BRING HARD COPY AS WELL AS SOFT COPY

MATHEMATICS

CLASS IX

HOLIDAY HOMEWORK

I. **Do the following questions in your Maths copy.**

Q1. If $(x + 1)$ is a factor of the polynomial $3x^2 - kx$, then find the value of k. [Answer : k = – 3]

Q2. Find the factors of $y^3 + y^2 + y + 1$.

Q3. Expand using identity : $(- 2x + 5y - 3z)^2$

Q4. Find $x + \frac{1}{x}$, if $x^2 + \frac{1}{x^2} = 62$. [Answer : 8]

Q5. Find the quotient and remainder when $3x^4 - 4x^3 - 3x - 1$ is divided by (x + 1).

[Answer : Q = $3x^3 - 7x^2 + 7x - 10$; R = 9]

Q6.Factorise $2x^2 - 7x - 15$ by Splitting the middle term.

Q7. Without actually calculating the cubes , find the value of $\left(\frac{-3}{4}\right)^3 + \left(\frac{-5}{8}\right)^3 + \left(\frac{11}{8}\right)^3$.

$\left[\text{Answer : } \frac{495}{256}\right]$

Q8. Using Factor Theorem, factorise the polynomial $x^3 + x^2 - 4x - 4$.

[Answer : (x + 1) (x + 2) (x – 2)]

Q9. Plot the points (– 3 , 0) (5 , 0) and (4 , 0) on Cartesian plane. Name the figure formed by joining the points and find its area. [Area : 16 square units]

Q10. Draw the quadrilateral with vertices (– 4 , 4) , (– 6 , 0) , (– 4 , – 4) , (– 2 , 0) . Name the type of quadrilateral and find its area. . [Area : 16 square units]

II . ACTIVITY

1. Activity 1 : Co-ordinate and mirror image of a geometrical figure (Activity 9)
2. Activity 2 : To make a square root spiral of Natural numbers by paper folding.

From Maths Laboratory Manual.

Do it in Maths Practical Note book.

III. PROJECT

Write about five Indian Mathematicians and their contributions.

Atleast 6 / 8 pages required

Do it in a Scrap Book.

Revise all the work you have done till now.

Science

Class 9

Holiday Home Work

A) Worksheet

Q1) What is the physical state of water at 100oC?

a) Liquid
b) Gaseous
c) Solid
d) All of these

Q2) Convert 300 K into Celsius.

a) 27◦C
b) 300◦C
c) 573◦C
d) 273◦C

Q3) According to ancient Indian philosophers, matter was made up of:

a) Four constituents
b) Five constituents (Panchtatvas)
c) Six constituents
d) Three constituents

Q4) Name the state of matter that 'has minimum inter-particle force of attraction'

a) Liquid
b) All of these
c) gas
d) Solid

Q5) Identify the incorrect statement.

a) Acetone is the least volatile liquid.
b) Ether is a volatile liquid.
c) Alcohol is moderately volatile.
d) Water is the least volatile liquid.

Q6) The room temperature on Celsius scale is 25°C . What is the temperature on the Kelvin scale?

a) 298 K
b) 200 K
c) 50 K
d) 300 K

Q7) Which of the two statements is true? Statement A: In Kelvin temperature, the symbol (◦) is not used. Statement B: Mercury is used in glass thermometers because it does not stick with glass.

a) Both A and B.
b) Statement B
c) Statement A
d) Neither A nor B

Q8) Name one common substance which can undergo a change in state upon heating or cooling.

a) Sugar

b) Diamond
c) Salt
d) Water

Q9) The temperature above which a gas cannot be liquefied is known as
a) Melting temperature
b) critical pressure
c) Boiling temperature
d) Critical temperature

Q10) In which one of the following sets, is each one a solid under ordinary conditions?
a) Stone, water, ice
b) Salt, sugar, chalk
c) Mercury, Iron, gold
d) Oxygen, Nitrogen, Sulphur

Q 11) "All cells arise from pre-existing cells" - who stated this?
a) Robert Hook
b) Purkinje
c) Virchow
d) Robert Brown

Q 12) Which of the following is known as "physical basis of life"?
a) Gene
b) Nucleolus
c) Protoplasm
d) Mitochondria

Q 13) The term protoplasm was coined by:
a) Robert Hook
b) Kholl and Ruska
c) J.E.Purkinje
d) Haeckel

Q 14) The largest cell in the human body is:
a) Kidney cell
b) Nerve Cell
c) Liver cell
d) Muscle cell

Q 15) Which cell organelle is found only in plants?
a) Golgi apparatus
b) Mitochondria
c) Plastids
d) Ribosomes

Q 16) Who proposed the Cell theory?
a) Mendel
b) Watson & Crick
c) Prophase
d) Schleiden & Schwann

Q 17) Main difference between an animal cell and a plant cell is:
a) Movement
b) Nutrition

c) Respiration
d) Growth

Q 18) Number of chromosomes in a prokaryotic cell is:
a) Infinite
b) one
c) 3
d) 2

Q 19) The only cell organelle seen in prokaryotic cell is:
a) Lysosomes
b) Ribosomes
c) Plastids
d) Mitochondria

Q 20) Which types of ribosomes are found in eukaryotes?
a) 60 S
b) 100 S
c) 70 S
d) 80 S

Q 21) Instantaneous speed of a vehicle is measured by
a) Speed Guage
b) Speedometer
c) Odometer
d) Calorimeter

Q 22) A particle covers equal distances in equal intervals of time. It is said to be-
a) Moving with variable acceleration
b) Moving with constant speed
c) Moving with constant acceleration
d) At rest

Q 23) Which of the statement is true? Statement A: A curved line in a speed-time graph means non-uniform motion. Statement B : A curved line in a velocity-time graph means uniform acceleration
a) Statement A is true, B is false
b) Neither statement A nor Statement B is true.
c) Statement A is false, B is true
d) Both the statement A and B are true

Q 24) A train 120m long moving on a straight and level track with uniform speed passes a pole in 6 seconds. Find the time it will take to cross a 50 m long bridge.
a) 8 second
b) 8.5 second
c) 9 second
d) 9.5 second.

Q 25) Which of the following physical quantity is not present in first equation of motion?
a) Displacement
b) Acceleration
c) Velocity

d) Time

Q 26) Which of the following is the case of accelerated motion?

a) Motion of the athletes in a straight line.
b) Body moving with constant velocity
c) Uniform circular motion
d) Both uniform circular motion and motion of the athletes in a straight line.

Q 27) What is the quantity which is measured as the area occupied by the velocity-time graph?

a) speed
b) acceleration
c) displacement
d) distance

Q 28) What is the nature of the distance-time graph for uniform motion of an object ?

a) Straight line inclined to distance-axis.
b) Parabola
c) Straight line inclined to time-axis
d) Curved line

Q 29) What can you say about the motion of an object whose distance-time graph is a straight line parallel to time-axis?

a) object is at rest
b) object is moving with constant speed
c) constant time
d) object is uniformly accelerated

Q 30) Which of the following is an example of uniform motion? A) The motion of car in a busy road B) The motion of a satellite around the planet C) The motion of moon around the earth D) The motion of any particle on the arm of a clock

a) (A), (B), (C) and (D)
a) b) (A) and (B)
b) c) (B) and (C)
c) (B), (C) and (D)