



Modern International School
Sec-19, Dwarka , New Delhi-75
Class-XI (SCIENCE)

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.



ENGLISH

- Research on the Egyptians civilizations –with particular reference to Tut’s Mummy and its discovery. Stick pictures.
- Research on Khushwant Singh’s life and works. Find out about the role of Khushwant Singh’s father in building Delhi.
- Research on sailing terminology and parts of a boat and gather information about Isle Amsterdam.
- Design a poster as an appeal for maintaining social distance at the time of COVID 19 outbreak .
- Cut out 5 clippings of Classified Ads under the heads –

.For sale

· To-let

· Situation vacant

· For matrimonial

- Write 5 short stories from around the world. Also state which one is your favourite and why?

SUBJECT :- MATHEMATICS

- Make a project of Graph of functions eg function given in chapter:-2 and chapter-11.
- Give atleast 5 real world exmaples of FIBONACCI SERIES.
- Make a chart of formulas of Trigonometric function.
- Revise chapter-1,9 and 6.
- Solve the assignment.

PHYSICAL EDUCATION

Topic No.1

ATHELETIC-

1. History
2. Define Track
3. Jumping Event Define
 - Long Jump
 - Triple Jump
 - High Jump
 - Pole Valt
4. Throwing Event
 - Shotput
 - Hammer
 - Discus

- Javelin

Topic No. 2

Game (Any One Game)

1. Athletes
2. Archery
3. Badminton
4. Boxing
5. Chess
6. Judo
7. Shooting
8. Skating
9. Swimming
10. Teckwondo
11. Tennis
12. Aerobic
13. Gymnastics
14. Rope-Skipping
15. Yoga
16. Bocce and
17. Unified Basketball

CWSN(Children with special needs- Divyang)

- History
- Ground Measurement
- New and Old Rules
- Fundamental Skills
- Terminology
- Venue
- Important Awards

Topic Np. 3:-

Yoga Aasen's (Any Five)

Asans – Pictire, Procedure, Benefit

PSYCHOLOGY

Q1 Make a project on one of the following topics:

1. Silent crisis of water
2. Superheroes and their relevance in 21st century
3. The era of dangerous games

4. Euthanasia

5. Terrorism – A manmade disaster

*Reflect on the following aspects of your topic:

a. What made you choose this topic?

b. Brief information or timeline of the major events related to the issue

c. Various perspectives or popular opinions.

d. Social impact

e. Your opinion

f. What does the future hold?

h. Relevant pictures

I Bibliography.

ECONOMICS

Make a project on your choice and research on topic

1. Relation between india and Pakistan
2. Theory of demand
3. Forms of market and its application
4. Non-banking financial institutions
5. Supply

BIOLOGY

- To make a powerpoint presentation of the following topics
 - a) Taxonomical Aids
 - b) Biological Classification
- To make a model of 1) Bacteriophage 2) Microscope
- Prepare a Herbarium using five plants from your locality.

CHEMISTRY

- Make a periodic table on Chart.
- Study the Activity of Vegetables and Fruit Juices.
- Revise the Chapter no. 1- “ Some Basic Concepts of Chemistry”& Chapter no. 2 – “ Structure of Atom from Book 1 AND Hydrogen & S Block elements from book from Book 2”

SUBJECT TEACHER:
S. N. MISHRA

HOLIDAY HOME-WORK
PERIOD: JUNE, 2020

SUB: PHYSICS
CLASS: (XI)

- ① Enumerate the contribution of PHYSICS to the society in about 1000 words.
- ② Explain and discuss the achievements of 3 of the following 5 physicists in minimum 300 words each:
(i) Bohr, Neils (ii) de-Broglie Luis V (iii) Faraday
(iv) Galileo (v) Newton.
- ③ Propose a model-design for your physics laboratory to experiment and verify the LAW OF PARALLELOGRAM OF VECTORS (such that, the same can be implemented in your school laboratory).
- ④ Covid-19 (the present corona virus) is a misappropriation of science. Give your criticism as a student of science in favour and disfavour of this statement in about 1000 words.
- ⑤ There are four fundamental forces in nature. Taking into account their sequence of discoveries, correlate them with the development of human civilization in minimum 1500 words.
- ⑥ A particle moving along x -axis has acceleration f at time t given as $f = f_0(1 - \frac{t}{T})$, where f_0 and T are constants. The particle at $t = 0$ has zero velocity, while $f = 0$. Obtain an expression for the velocity v_x .
- ⑦ One day, on reaching the metro station, you found that the escalator was not working and walked up the stationary escalator in time t_1 . On another day, you remained stationary on the moving escalator and it took you up in time t_2 . Calculate the time taken when you walked up the moving escalator.

COMPUTER SCIENCE

Create a web site (Minimum 5 web pages) / Power Point presentation (Minimum 15 slides) on any of the following topics:

- Application of computers
- Input and output devices
- Generations of Computers
- Generation of Computer Languages
- Types of Computers
- Types of Software
- Features of Object Oriented Programming
- Computer Memory/Memory Devices
- C++ Tutorial
- Operating Systems
- Being a Computer Science student, it is important for you to know about different inventors/ Developers in the world of technology. Research on any one of the following mentioning their achievements and contributions in the field of technology.

Create a biography through PowerPoint presentation/ Website:-

- a. Charles Babbage
- b. Steve Jobs
- c. Bill Gates
- d. Steve Wozniak
- e. Bjarne Stroustrup

INNOVATIVE ACTIVITY

- **Archimedes postulated the principle of buoyancy and could correctly predict the purity of gold used for the king's crown.
Using the concept, prepare your thesis to give the exact prediction for the purity of gold in a crown. Have your assumption where required.**
- **In the drama "julius coesar" by W. Shakespeare, when Brutus stabs coesar from behind , coesar exclaims " Et-tu-brute !" In our present day hindi , we can literally translate it as "ऐ-तू-ब्रुटस !" Justify the similarity.**

