



MUKAND LAL PUBLIC SCHOOL, SAROJINI COLONY YNR

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Holidays Home Work

Class: XII

Session (2023-24)



Some Tips to make holidays special

- ❖ **APPRECIATE NATURE** - GO FOR LONG WALKS IN A PARK OR GARDEN WITH YOUR FAMILY AND FRIENDS. GROW A PLANT AND NURTURE IT.
- ❖ **UNRAVEL THE ARTIST IN YOU** - CREATE A NEW STORY, TRY A NEW RECIPE WITH YOUR MOM, LEARN A NEW SONG, PLAY A NEW INSTRUMENT.
- ❖ **GOOD MANNERS ARE THE KEY**- RESPECT YOUR PARENT, GRANDPARENTS AND ALL ELDERS.
- ❖ **USE THREE MAGICAL WORDS** (SORRY, PLEASE AND THANK YOU) OFTEN. 'A LITTLE MORE COURTESY GOES A LONG WAY.'
- ❖ **STAY FIT, STAY HEALTHY** - PLAY YOUR FAVORITE GAME/ SPORT REGULARLY.
- ❖ DEVELOP IN YOURSELF THE SPIRIT OF SPORTSMANSHIP & SENSE OF HEALTHY COMPETITION.
- ❖ **LEARN ABOUT OUR HERITAGE** – FIND SOME TIME TO VISIT MUSEUM AND MONUMENTS. READ ABOUT THEM.
- ❖ LEARN NEW THINGS RELATED TO YOUR COUNTRY.
- ❖ **SAVE NATURE** – CONTRIBUTE TO SAVE OUR PRECIOUS ENVIRONMENT. MINIMIZE THE WASTAGE OF RESOURCES LIKE WATER AND FUEL.

4 QUALITY EDUCATION



Sustainable Development Goal 4 aims at ensuring inclusive and equitable quality education and promote lifelong learning opportunities for all. This goal ensures that all girls and boys complete free primary and secondary schooling by 2030. It also aims to provide equal access to affordable vocational training, to eliminate gender and wealth disparities and achieve universal access to a quality higher education.

English

1. Make a Table Calendar showcasing different examples of quality education. Give a suitable caption to each picture. (Roll no. 1-10)
2. Using the old / used clothes to make cushions and pillows displaying the sustainable developments goals by UNO (Roll No. 11-20)
3. Make a roll on drum (just like you see in Buddhist temples) to showcase different methodologies used by schools to provide quality education. (R. No. 21-30)
4. Write a Research paper on why students are opting for homeschooling/dummy admissions or are dropping out of school on A3 sheet. Make it creative by using relevant pictures and drawings.(Roll No. 30-40)

Physics

1. Make a project file to explain role of physics in sustainable development
2. Make a presentable PPT to explain role of physics in Global partnership for sustainable development
3. Make a Project file on Light Dependent Resistor (LDR) to explain its role in sustainable development
4. Make a Project file on solar cell / solar panel to explain its role in Global partnership for sustainable development
5. Make a presentable PPT on solar cell / solar panel to explain its role in Global partnership for sustainable development
6. Make a chart on smart city including solar panel, wind mill, LDR for sustainable development
7. Make a working Project on Light Dependent Resistor (LDR) to explain its role in sustainable development
8. Make a project to explain role of physics in sustainable development
9. Make a project file to explain how semiconductor physics can be used in sustainable development
10. Make a project file to explain how Nanotechnology can be used in sustainable development

NOTE:

Topic	Roll no.
1	1,11,21,31
2	2, 12,22,32
3	3,13,23,33
4	4, 14,24,34
5	5, 15,25, 35
6	6,16,26,36
7	7,17,27,37
8	8,18,28,38
9	9,19,29,39
10	10,20,30,40

Chemistry

Roll no 1 to 10

- Project of shopping complex for healthy and organic food products
- Make a collage of work already done or is under process to attain sustainable development goals (use news paper cuttings)

Roll no 11 to 20

- Make a chart on pros and cons of using natural vs chemical fertilizers (including list of fertilizers)
- Research paper on implementation of sustainable development goals

Roll no 21 to 30

- Design a model on management of industrial waste and consumer waste
- Write an abstract on role of our government in global partnership for sustainable development

Roll no 31 onwards

- Project Report on upgrading sustainable slums in cities
- Design a concept map on a chart of strategies / methods to achieve sustainable development goals

Maths

- Group 1 : Roll no. (1-6) : - Make a project report and Working model on relations and functions.
- Group 2 : Roll no. (7-12) :- Make a project report and Working model on Trigonometric / Inverse Trigonometric functions.
- Group 3 : Roll no.(13-18):- Make a project report and Working model on Conic sections.
- Group 4 : Roll no.(19-25): - Make a project report and Working model on Probability.
- Group 5 : Roll no. (25-29) :- Make a project report and Working model on Pascal Triangle.
- Group 6 : Roll no.(30-34) :- Make a project report and Working model on Three dimensional Geometry.

- Group 7: Roll no. (35 onwards) :- Make model of structures, monuments, Buildings etc.) and find out the use of Mathematics behind these structures.

Applied Maths

Prepare a Project File by choosing any one of the topics mentioned below :

- Weather prediction (Prediction of monsoon from past data).
- Stock price movement.
- Risk assessments by insurance firms from data.
- Predicting stock market crash.
- Predicting the outcomes of an election-exit polls.
- Predicting mortality of infants.
- Visit kirana shops near your home and collect the data regarding the sales of certain commodities over a month. Try to figure out the stock of a particular commodity which should be in the store in order to maximize the profit.
- Visit villages and collect data of various crops over the past few years from the farmers. Also, collect data about temperature variations and rain over the period for a particular crop. Try to find the effect of temperature and rain variations on various crops.
- Each day newspaper tells us about the maximum temperature, minimum temperature and humidity. Collect the data for a period of 30 days and represent it graphically. Compare it with the data available for the same time period for the previous year.
- Vehicle registration data- correlating with pollution and the number of accidents.

Physical Education

Unit1- Management of Sporting Events (Roll no: 1-4 of each class)

- Activities:** 1- Write a report on athletic meet for news paper
2- Design a pamphlet for Volleyball interhouse tournament.
Make it creative by using relevant pictures and drawings
3- Invitation cards for inviting guests for annual athletic meet

Unit2- Children and Women in Sports (Roll no: 5-8 of each class)

- Activities:** 1- Clay modelling: Make skeletal with clay showing different postural deformities
2- Write a report on empower girls in India through sports

Unit3- Yoga as Preventive measure for Lifestyle Disease (Roll no: 9-12 of each class)

- Activities:** 1- Logo of yoga in the form of poster
2-Select any lifestyle disease and do research of to find effect of yoga
(Asthma, Obesity , Hypertension,Diabetes,Back pain)
3- Design yoga poses by using leaf

Unit4- Physical Education & Sports for (CWSN) (Roll no: 13-16 of each class)

- Activities:** 1- Make a collage of para athlete
2- Make specially designed equipment
3- Write a Motivational speech for the students of CWSN on A3 sheet.
Make it creative by using relevant pictures and drawings

Unit5- Sports & Nutrition (Roll no:17-20 of each class)

- Activities:** 1- Make model shows macro and micro nutrients of balance diet
2- Make a healthy plate for sports person by using a chart paper

Unit6- Test and Measurement in Sports (Roll no: 21-24 of each class)

- Activities:** 1-Make a model for motor fitness test with station
2-Find the body mass index of your classmates by applying the formula

Unit7- Physiology & Injuries in Sport (Roll no: 25-28 of each class)

- Activities:** 1- Make a first aid kit
2 Make cards showing different types of bones injuries

Unit8-Biomechanics and Sports (Roll no: 29-32 of each class)

- Activities:** 1-Design stick figures showing different types of movements
(Abduction, Adduction, Flexion, Extension)

Unit 9- Psychology & Sports (Roll no: 33-36 of each class)

Activities: 1-Write a story on a player of your choice highlighting the factor that made him or her succeed. Make it creative by using relevant pictures and drawings.

2-Make a model showing different kinds of personality using waste material.

Unit10-Training in Sports (Rest of students)

Activities: 1- Do exercise of improving speed, flexibility, strength, endurance
2. Make a model of circuit training showing 6 stations.