



GREENWAY MODERN SCHOOL  
DILSHAD GARDEN  
HOLIDAY HOMEWORK  
FOR CLASS IX (2021-2022)

**Dear Parents**

Wish you all a very happy summer vacation!

“Self-healing has been the finest art ever.” “Let the nature heal itself and you in the most natural ways, don’t resist the natural healing --complement it with self-love.” Although the whole world is facing a dire situation owing to COVID-19, there have been some positive impacts of lockdown. As it is correctly said, “A coin has two sides”, the positive side of this lockdown has been that the nature is healing itself and we have come to know the importance of family and health in our lives.

For this summer vacation, we have planned assignments and activities to keep the children engaged and also help them in channelizing their energies. Kindly help and guide your ward in completing his/her work and also exploring his/her creative self.

General Instructions-

- The Holiday Homework is to be done in neat and tidy handwriting. Subject wise, in separate folders or files as per the given instructions.
- Holiday Homework of all the subjects must be submitted to the respective teachers as per their instructions.
- Make a set routine for your child to do holiday homework as regular practice improves learning and writing skills instead of forcing them to do their holiday homework at the eleventh hour.
- Encourage your child to read E-newspaper sent in the class groups everyday, because it not only enhances the knowledge acquired but also develops the vocabulary, language skills.

**NOTE: All the Subjects' Pre Midterm Internal Assessment will be done on the basis of Holiday Homework**



1. Give a Bio-Sketch of any differently abled person whose life and work proved to be inspirational and exemplary for all people, in the form of PPT. (8 Slides)

**OR**

Make a video of approximately 3 minutes, giving a detailed account of the author and novelist, 'Ruskin Bond' in terms of :-

- Life
  - Work
  - Achievements
2. Completion of assignment related to the poem- 'The Road Not Taken'. Assignment Worksheet will be shared via, MS Teams, to be solved in the English register.



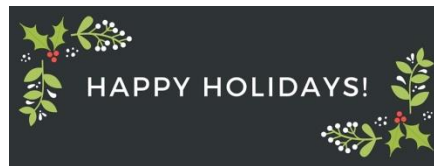
# हिंदी

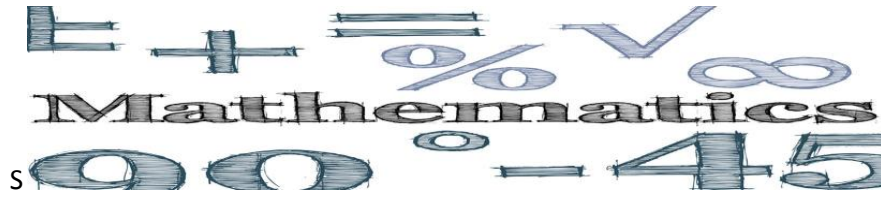
ग्रीष्मावकाश परियोजना कार्य - 2021

विषय-हिंदी कक्षा-नवमी

- ❖ 'दुःख का अधिकार' पाठ के आधार पर लेखक और बुढ़िया में अपनी कल्पना से संवाद लिखिए। चित्र भी बना कर अपने कार्य को आकर्षक बनाइए।
- ❖ पोशाक के माध्यम से हर व्यक्ति का दूसरों से प्रथम परिचय होता है। इस कथन को भिन्न-भिन्न चित्रों के माध्यम से स्पष्ट कीजिए।
- ❖ अपना परिचय देते हुए एक समाचार वाचक की तरह समाचार प्रस्तुत करते हुए चार से पाँच मिनट की अपनी विडिओ बनाओ। अपनी प्रस्तुति को प्रभावशाली बनाने के लिए आप समाचार से सम्बन्धित चित्र भी दिखा सकते हैं।
- ❖ रैदास के पदों में जिन संतों कवियों का परिचय दिया गया है उनके चित्रों के साथ संक्षेप में उनके परिचय पर आधारित पावर पॉइंट प्रस्तुति तैयार कीजिए जैसे नामदेव, सधना, सैनु, नामदेव, तिलोचन।

सारा परियोजना कार्य आकर्षक, सृजनात्मक और कलात्मक होना चाहिए। कार्य को आकर्षक बनाने के लिए आप भिन्न-भिन्न रंगों और चित्रों का प्रयोग कर सकते हैं।  
सारा कार्य आंतरिक मूल्यांकन के अंतर्गत जांचा जाएगा।





1) Revise all the chapters done so far to have a better understanding of the concepts.

2) Make project on any one topic

- a) Fibonacci Numbers

Or

- b) Pascal's Triangle

3) Assignment Chapter - 1 : Number Systems

(Do in your register)

Question 1: Write two rational and two irrational numbers between  $-2/3$  and  $-1/5$ .

Question 2: Express 2.654 in  $p/q$  form where  $q \neq 0$  and  $p$  &  $q$  are integers.

Question 3: Represent  $\sqrt{17}$  in number line.

Question 4: Express  $0.38 + 1.27$  as a fraction in the simplest form.

Question 5: Write one rational and one irrational number between  $0.1313313331\dots$  and  $0.242442444\dots$

Question 6: Find the value of  $1/\sqrt{10}$  where  $\sqrt{10}=3.162$

Question 7: Simplify  $\sqrt[4]{81}-8(\sqrt[3]{216})+15(532)+\sqrt{225}$

Question 8: If  $a=\sqrt{2}+1$ , find the value of  $(a-(1/a))^2$

Question 9: Simplify  $(4+\sqrt{5})/(4-\sqrt{5})+(4-\sqrt{5})/(4+\sqrt{5})$ .

Question 10: If  $p=(\sqrt{3}-\sqrt{2})/(\sqrt{3}+\sqrt{2})$  and  $q=(\sqrt{3}+\sqrt{2})/(\sqrt{3}-\sqrt{2})$  then find  $p^2+q^2$ .

Question 11: If  $x=9+4\sqrt{5}$ , find the value of  $\sqrt{x}-(1/\sqrt{x})$ .

Question 12: If  $x=(\sqrt{3}+\sqrt{2})/(\sqrt{3}-\sqrt{2})$  and  $y=(\sqrt{3}-\sqrt{2})/(\sqrt{3}+\sqrt{2})$  then find the value of  $x^2+xy-y^2$

Question 13: Rationalize the denominator of  $4/(2+\sqrt{3}+\sqrt{7})$ .

Question 14: Prove that  $1/(3+\sqrt{7})+1/(7+\sqrt{5})+1/(5+\sqrt{3})+1/(3+1)=1$

Question 15: Find the value of  $(81)^{0.16}*(81)^{0.9}$

Question 16: Arrange in descending order  $2, \sqrt[3]{4}$  and  $\sqrt[4]{3}$ .

Question 17: Find the value of  $4/(216)^{-2/3}+1/(256)^{-3/4}+2/(243)^{-1/5}$

Question 18: Prove that  $(2^{30}+2^{29}+2^{28})/(2^{31}+2^{30}-2^{29})=7/10$

# Happy Holidays!

## Social Studies

### Social Studies Project

(To be forwarded to CBSE as internal assessment)

The Topic for the project is Disaster Management (Do any one of the following)

- a. Earthquake
- b. Flood
- c. Drought
- d. Landslide
- e. Cyclone

Guidelines for the project

- Collect information from various sources like newspapers, photographs, article from magazine, internet, eye witness, account etc, Regarding the event and the problems faced by the disaster victims.
  - Collect information on immediate response of various government agencies like police, hospitals, district administration etc.
  - Discuss the role of authorities, Indian and international agencies (CRY, WHO, UNO) in the rehabilitation process.
  - In conclusion highlights the mitigation process to include identification of risk zones, community awareness and individual response.
  - A case study of supplement and build up on the project shall be appreciated.
  - Criteria for evaluating project work include content accuracy, originality, presentation and creativity.
  - The project should be hand written. Print outs will not be accepted.
  - All the photographs should be labeled and acknowledged.
  - **Project should be developed and presented in this order**
  - Cover page showing project title, school's name, student's name, class and section and academic session (year)
  - List of contents with page number (approx...15 pages)
  - **Acknowledgements:** Acknowledging institution, offices and libraries visited and people who have helped.
  - **Project Overview:** Purpose, aim, methodology and experience while doing the project
  - **Chapters** with relevant headings.
  - **Summary and conclusions** based on findings.
  - **Bibliography** should have the title, pages referred, author, publisher, year of publication and if a website, the name of the website with a specific link which have been used.
  - **Teachers evaluation report**
- NOTE:** Only ecofriendly material to be used
- Total marks allotted for the project are 10, which includes theory as well as viva or written test for content assimilation.

#### PROJECT EVALUATION PROFORMA

The proforma should be attached on the last page of the project.

School's Name

Address

Student's Name

Roll. No

Class

Section

Teacher Assessment

1. Content accuracy and originality
2. Presentation and creativity
3. Process of project completion
4. Viva –voce
5. Overall remarks:
6. Teacher signature:  
Date:
7. School stamp:



## SCIENCE -CLASS 9 (2021-22)

### HOLIDAY HOMEWORK



Q1) Complete the notebook work of Ch (1) and submit through MS Teams.

Q2) Learn and revise Ch (1) from NCERT exemplar.

Q3) Complete all activities discussed in the class in lab manual file and report on differences between animal cell and plant cell..

Q4) Make a project on: How oxygen concentrator works (commercial use of oxygen).

Q5) Do the assignment (given below) in A4 sheets.

Holiday homework should be submitted through MS Teams assignment, created for Hhw. It will be graded for internal assessment.

#### Assignment (1)

Answer the following questions:

1) Define the following:

- Latent heat of vaporisation
- Latent heat of fusion
- Sublimation
- Melting point

2) Give reasons why:

- Steam produces severe burns as compared to boiling water.
- Liquids generally have lower density than water.
- A gas fills completely the vessel in which it is kept.
- A rubber changes its shape on stretching, still it is called a solid.
- The smell of hot sizzling food reaches us several metres away but to get smell from cold food we have to go closer.

3) Convert the following temperatures:

- Into Celsius: 200K, 105k
- Into Kelvin: 100°C, 0°C

4) Discuss with the help of activity

- Evaporation causes cooling.
- Sublimation of Ammonium chloride.
- Particles of matter are continuously moving.

5) Differentiate between solid, liquid and gas (any 5 points).

