ENGLISH ---

1. **PROJECT WORK**

   Nelson Mandela : "Long Walk to Freedom" is an autobiography , detailing his ascent from an anti-apartheid activist and Robben Island –jailed terrorist, to an ANC leader and a cultural icon. Read this chapter carefully and make
   1. Wall Magazine - Roll 1 to 20
   2. Flow Chart   - Roll 21 to 39

   NOTE : Project should be made on A-3 size sheet . It can be made attractive by pasting pictures on it.

2. Poems **-**'Dust of Snow" and "Fire and Ice" are composed by Robert Frost. Other than this, find and write any two poems of the same poet and write your views on both the poems in 30-40 words. (On A4 size sheet with pictorial representation)
3. Grammar & Writing Skills worksheets
   (Make a separate notebook for worksheets)

संत निरंकारी पब्लिक विद्यालय, निरंकारी कॉलोनी, दिल्ली
ग्रीष्मावकाश गृहकार्य (2022 – 23)
कक्षा -दसवीं
विषय हिंदी

1. कबीर जी की साखियों में धार्मिक आडंबरों का विरोध मिलता है। आप 50 शब्दों में लिखिए कि इसके क्या कारण हो सकते हैं? कबीर द्वारा लिखित कोई भी दस दोहो को संकलित कीजिए, जो आज के समय में भी प्रासांगिक हैं । (यह कार्य अपनी उत्तर पुस्तिका में करें)

2. आपने बड़े भाई साहब पाठ में प्राचीन और वर्तमान शिक्षा प्रणाली के विषय में पढ़ा , इसी बात को आधार मानकर अपने घर अथवा पड़ोस के किसी वरिष्ठ व्यक्ति से उस समय की शिक्षा प्रणाली पर बातचीत कीजिए और अपनी आधुनिक शिक्षा प्रणाली के साथ तुलना कीजिए। इस सारी बातचीत को ,जो आपने दूसरे व्यक्ति से सुनी और अपनी शिक्षा में महसूस की उसे 250 से 300 शब्दों में ए-4 आकार की शीट्स पर लिखिए ।

3. शरीर के भिन्न-भिन्न अंगों पर आधारित कोई भी बीस मुहावरे एकत्रित कीजिए और चित्रों सहित उनके अर्थ लिखकर वाक्य में प्रयोग कीजिए । (यह कार्य उत्तर पुस्तिका में ही करें ।)

4. डायरी का एक पन्ना पाठ आपने पूरे मनोयोग से पढ़ा है, इस पाठ को पढ़ने के उपरांत अपने मन में आए विचारों को कम से कम 150 शब्दों में एक अनुच्छेद के रूप में लिखिए कि एक अच्छा नागरिक होने के नाते किसी भी संकट के समय आप अपने देश के लिए क्या कर सकते हैं?
   (आपके द्वारा लिखा गया अनुच्छेद बिल्कुल मौलिक होना चाहिए ।)

5 हिंदी के विभिन्न कालों के कोई 3-3 कवि / कवयित्रियों के विषय में इंटरनेट से जानकारी एकत्रित कीजिए और सचित्र सभी के लिए ए-4 आकार की शीट्स पर आकर्षक प्रवाह चित्र तैयार करते हुए एक सुंदर प्रोजेक्ट तैयार कीजिए प्रथम पृष्ठ पर अपना नाम, विद्यालय का नाम कक्षा अनुक्रमांक इत्यादि जानकारी लिखिए ।

* यह सारा कार्य आंतरिक मूल्यांकन के अंतर्गत जाँचा आ जाएगा।
* कार्य आकर्षक, सृजनात्मक और प्रस्तुति योग्य होना चाहिए।
* कार्य को आकर्षक बनाने के लिए विभिन्न रंगों और चित्रों का प्रयोग भी करें ।

विशेष :- (अभी तक कक्षा में जो भी पाठ पढ़ाए गए हैं उन सभी की पुनरावृत्ति कीजिए व संबंधित अभ्यास – कार्य को अपनी कॉपी में कीजिए ।)

MATHEMATICS

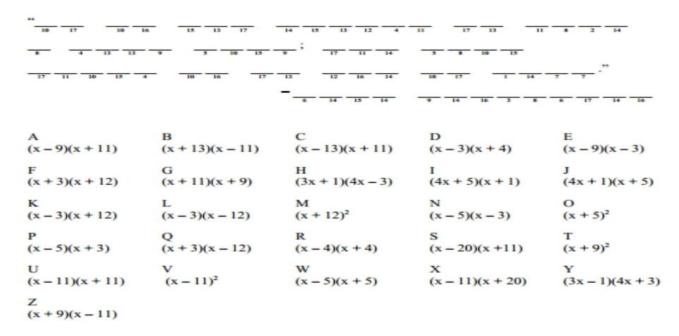- Make a spinning wheel to show the volume , total surface area , lateral surface area of cone, cylinder , cube , cuboid , sphere and hemisphere.

https://youtu.be/AevHNInx8HE
https://youtu.be/Y4jkKCy-IB0

- Revise the chapters done and also do examples of each chapter in a separate practice copy.

Can You Decipher the Quotation?

A	B	C	D	E
$(x-9)(x+11)$	$(x+13)(x-11)$	$(x-13)(x+11)$	$(x-3)(x+4)$	$(x-9)(x-3)$
F	**G**	**H**	**I**	**J**
$(x+3)(x+12)$	$(x+11)(x+9)$	$(3x+1)(4x-3)$	$(4x+5)(x+1)$	$(4x+1)(x+5)$
K	**L**	**M**	**N**	**O**
$(x-3)(x+12)$	$(x-3)(x-12)$	$(x+12)^2$	$(x-5)(x-3)$	$(x+5)^2$
P	**Q**	**R**	**S**	**T**
$(x-5)(x+3)$	$(x+3)(x-12)$	$(x-4)(x+4)$	$(x-20)(x+11)$	$(x+9)^2$
U	**V**	**W**	**X**	**Y**
$(x-11)(x+11)$	$(x-11)^2$	$(x-5)(x+5)$	$(x-11)(x+20)$	$(3x-1)(4x+3)$
Z				
$(x+9)(x-11)$				

Factor the polynomials. Write the matching letters into the numbered blanks above.

1) $x^2 - 25$

2) $x^2 - 22x + 121$

3) $x^2 - 2x - 143$

4) $x^2 + 20x + 99$

5) $x^2 + 24x + 144$

6) $x^2 - 16$

7) $x^2 - 15x + 36$

8) $x^2 + 2x - 99$

9) $x^2 + x - 12$

10) $4x^2 + 9x + 5$

11) $12x^2 - 5x - 3$

12) $x^2 - 121$

13) $x^2 + 10x + 25$

14) $x^2 - 12x + 27$

15) $x^2 - 8x + 15$

16) $x^2 - 9x - 220$

17) $x^2 + 18x + 81$

- Make a Mathematical Crossword.

Objective : To play with crossword puzzle using Mathematical terms :

1		**2**							**3**		**4**	
				5	**6**							
	7											
								8				
		9										
								10				
		11										
	12											

Directions :-

ACROSS →	DOWN ↓
1. The measure of uncertainity is called _____. 7. The line drawn from the eye of an observer to the point in the object viewed by the observer is called _____. 9. The common point of a tangent and circle is called point of _____. 10. A tangent to a circle intersects it in _____ point(s). 11. The mathematical instrument which is used for measuring the angle of elevation depression of an object is called _____. 12. The distance of a point from y-axis is called its _____.	2. The distance of a point from x-axis is called its _____. 3. A quadratic equation $ax^2 + bx + c = 0$ has _____ equal roots, if $b^2 - 4ac = 0$. 4. Vertical cross section of a right circular cylinder is always a _____. 5. The probability of impossible event is _____. 6. Two or more circles having same centre is called _____. 8. Part of the circular region enclosed between two radii and corresponding arc is called _____.

Where to do: 2, A4 size sheets.
Parameters:
(i)   Accuracy
(ii)   Presentation

SCIENCE---

BIOLOGY

Activity 1- Make a project on chapter sustainable management of natural resources. The project should have content of at least 25-30 A4 sheets and focus should be on judicious use of the resources.

ACTIVITY 2- Write a brief report on a disease related with malfunctioning of any one of the following systems/ organs in human beings

1) Digestive system
2) Respiratory system
3) Heart
4) Kidneys

The project work is to be done on A4 size sheets. It should be colorful and artistic.

ACTIVITY 3-   Write a brief report on prevalence and risk factors associated with various types of disease in Sikkim. Supplement your work with attractive photographs. The report should be beautifully decorated.

All the three activities should be done in A4 size sheets with one cover page Portfolio activities

<p align="center">Rubrics for assessment:</p>

On time submission-5 marks ,Content- 3 marks, Presentation- 2 marks

PHYSICS

- Learn and practice chapter 10 .
- Practice all numericals of Chapter10 given in NCERT book in separate notebook.
- Activity 1: Draw ray diagram of concave mirror and convex mirror on A4 sheets. Also write nature of image formed in each case.
- Activity 2: Draw ray diagram of concave Lens and convex lens on A4 sheets. Also write nature of image formed in each case.
- Do following question in notebook.

1. A concave mirror produces three times magnified (enlarged) real image of anobject 10 cm in front of it. Where is the image located?

2. Three mirrors, one plane, one concave and one convex are lying on the table.How can a person identify them without touching them or using any otherapparatus or device?

3. Obtain the formula for the focal length of a lens in terms of object distance (u)and magnification (m).

4. In what S.I unit is the power of lenses stated? A convex lens has a focal length of50 cm. calculate its power?

 5. The refractive index of a dense flint glass is 1.65 and for alcohol it is

 1.36 with respect to air. Find the refractive index of dense flint glass with

 respect to alcohol.

6. A concave lens has focal length of 20 cm. At what distance from the lens a 5cmtall object be placed so that it forms an image at 15 cm from the lens? Alsocalculate the size of the image formed?

7. State the mirror formula for determining the focal length of spherical mirrorswrite the meanings of the symbols used An object is placed at a distance of 25cm. from a concave mirror of focal length 15 cm. calculate the distance of theimage from the mirror.

8. Draw a ray diagram to show the use of a convex lens for the formation of imageshaving the following characteristics.
    (a) Real & inverted and diminished
    (b) Virtual, erect & magnified.

(CHEMISTRY)

1. Write the chemical formula of the following compounds.

 (i) Lime (ii) Nitric Acid (iii) Plaster of Paris (iv) Sodium acetate (v) Baking soda (vi) Washing soda (vii) Bleaching powder (viii) King of chemical (ix) Lime stone (x) Common Salt.

2. Write the name of some (at least 10) chemical compounds that you use in your day to day life. Classify them as acids, bases and salts.

3. Write chemical equation for the following

(a) Barium chloride reacts with zinc sulphate to give zinc chloride and a precipitate of barium sulphate.

(b) Methyl alcohol burns in air it reacts with oxygen from air to form carbon dioxide and water.

(c) Solutions of silver nitrate is mixed with a solution of sodium chloride, a white precipitate of silver chloride is formed and sodium nitrate in aqueous.

(d) Aqueous solution of lead nitrate and sodium sulphate are mixed, a white precipitate of lead sulphate is formed along with sodium nitrate.

(e) Iron(III) sulphate (Ferric sulphate), on reaction with sodium hydroxide solutions, gives brown precipitate of iron (III) hydroxide and sodium sulphate.

4. Complete class work up to chapter – 1.

5. Complete homework up to chapter – 1.

6. Complete activity of chemistry 1 and 2 in practical file.

7. Learn all lesson studied so far.

SOCIAL SCIENCE

Dear Students,

This summer holiday homework is based on your social sciences curriculum. Every student has to compulsorily undertake any one project on the following topics-:

Consumer Awareness

OR

Social Issues

OR

Sustainable Development

Significance of doing a project on in social sciences

As students of social sciences and as conscious citizens, doing a project is going to give you a first-hand experience and opportunity to get yourself familiarise not only with the meaning, factors but also to gain an insight and pragmatic understanding of the theme.

Guidelines to complete your project report

1 Topic for the project report

2 The distribution of marks over different aspects relating to Project Work is as follows:

    a) Content accuracy, originality and analysis --   2Marks

    b) Presentation and creativity   --   2 Marks

    c) Viva Voce   --   1Mark

- The project needs to be done individually in a creative and neat manner.
- The project report should be of 15-20 A-4 size sheets filed together and spiraled neatly.
- You can cover / design the cover page as per your liking.
- The Project needs to be handwritten. For diagrams/ graphs, use fine tip pencil for neatness. Stick pictures and articles neatly wherever appropriate giving them a fine outline.
- The project should be presented in the following format:

1. ***Cover page***
2. ***Acknowledgement***
3. ***Index***
4. ***Introduction (A brief synopsis of your entire project report)***
5. ***Objective***
6. ***Analysis of your learning from the task***
7. ***Conclusion (A summary of your project report) A Summary Report should be highlighting:***

a) objectives realized through individual work and group interactions.
b) calendar of activities.
c) innovative ideas generated in the process
d) list of questions asked in viva voce.

8. *Bibliography (This should include clear mention of websites / URLs visited, newspaper and magazines referred, articles, information from any government department or other experts)*
* The projects carried out by the students in different topics should subsequently be shared among themselves through interactive sessions such as exhibitions, panel discussions etc.
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3. *Read newspaper daily to update and enhance your knowledge*
Happy holiday and enjoy learning

Ch-The rise of Nationalism in Europe

Q1} Why did French artist Frederic Sorrieu prepare a series of print based on democratic and socialist republics in 1848?

Q2} Describe in brief any four features of the Vienna Treaty of 1815.

Q3} Explain any four provisions of the Napoleon Civil code 1804.

Q4} Examine the main features of the process of German unification under the leadership of Otto Von Bismarck

Q5} What role did Giuseppe Garibaldi play in the Unification of Italy?

■■■

Information Technology

Do as directed

- Neatly depict **barriers in communication** on A4 sizesheet.
- Make an invitation letter in MS Word using Mail Merge to invite your relatives for the occasion of House Warming
- Collect pictures of Corona Warriors from google, make a collage in Ms Word. To do formatting and setting of pictures follow the hints given
  - ✓ Set page border
  - ✓ To insert a picture – Go to Insert Ribbon → Choose Picture
  - ✓ To format a picture – Select the inserted picture→Click on the Format Ribbon which will appear next to Help Ribbon and explore the various options given and make your collage attractive.