SANT NIRANKARI PUBLIC SCHOOL
HOLIDAYS HOMEWORK (2018-19)
CLASS-IX
SUBJECT-ENGLISH

SUMMER VACATION HAS BEGUN
IT'S TIME TO HAVE FUN
SPECIAL FRIENDS AND LONG RUN
BUT WHEN YOU ARE DONE
TAKE BOOKS TURN BY TURN
IN JULY ,BE PREPARED FOR YOUR RETURN
MAY YOU HAVE FRIENDS BECKON
TEACHERS WILL SAY-WELCOME
BY:MS.REKHA RANI

ASSIGNMENT

S.NO	TOPIC/LESSON	QUESTION
1	WRITING SKILL- DIARY ENTRY	a)You visited a zoo today which made you sad at the caged plight of the animals. You decide to write a diary page to express your feelings.Write a diary entry in about 100-120 words. b)Your cousin has come at your place today to spend some days with your family.You are so happy to think of the adventure you both are going to have.Express your feelings and plans in the form of a diary entry.(word limit-100-120)
2	ARTICLE WRITING	**a)**The Schools of the Future **b**)Fast Food Addiction-Its Harmful Effects
3	STORY WRITING	**a)** Anil was a clerk in an office .His boss was very annoyed with him because he often came to office late. But one day …………………………………………. (Complete this story in about 150 -200 words. Give a suitable title also to your story.) **b)**It was a bright day and you were reading a book in your lawn. Suddenly a man threw a bag in your garden and ran away. You called him but……………….. (Complete this story in about 150 -200 words. Give a suitable title also to your story.)
4	LITERATURE	**Beehive** Q1.After reading the story ' The Fun They Had' what idea do you form of an ideal school? Q2.Describe the early life of Bismillah Khan. Mention the important rewards and recognitions got by him.(L-2 : The Sound Of Music) Q3.What is the theme of the poem 'The Road Not Taken'? **Moments** Q4 "The Lost Child" is all about the sweet relationship between children and parents. Parents are an umbrella of security and children a source of happiness and joy. This relationship if lost kills the will to live. Describe how this is brought in the story? Q5 The monkey and the donkey never became friends.Who do you think was wrong in the story 'The Adventures of Toto'? What values were missing in their relationship?

5	Project	Poem-'WIND' is composed by Subramania Bharti. 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.

Note: Do all the above topics/questions and project in a separate (20-30 page)notebook .

Holiday homework   **Subject: Mathematics**

Worksheet 1 Ch-1

1. Check whether $-5 + 2\sqrt{5} - \sqrt{5}$ is an irrational number or a rational number.
2. Simplify : $\sqrt{72} + \sqrt{800} - \sqrt{18}$
3. Find the value of $\sqrt{\frac{2+\sqrt{3}}{2-\sqrt{3}}}$, if $\sqrt{3} = 1.73$
4. If x = $3 + 2\sqrt{2}$, then find $x + \frac{1}{x}$
5. Express the following in the form of p/q:

   $i)\ 3.\overline{2}$ ii) $18.\overline{48}$ iii) $1.\overline{419}$ iv) $1.3\overline{2} + 0.\overline{35}$

6. Represent the following on number line :
   i) $\sqrt{2}$ ii) $\sqrt{3}$ iii) $\sqrt{5}$ iv) $\sqrt{10}$ v) $\sqrt{50}$

   vi) $\sqrt{7.3}$ vii) $\sqrt{5.7}$ viii) $6.4\overline{7}$ (up to 3 decimal places)

7. Simplify: $\sqrt[4]{81} - 8(\sqrt[3]{216}) + 15 (\sqrt[5]{32}) + \sqrt{225}$
8. Find the value of a and b if $\frac{\sqrt{3}-1}{\sqrt{3}+1}$ = a +b$\sqrt{3}$
9. Simplify : $\frac{4+\sqrt{5}}{4-\sqrt{5}} + \frac{4-\sqrt{5}}{4+\sqrt{5}}$
10. If x = $\frac{\sqrt{5}+1}{\sqrt{5}-1}$ and y = $\frac{\sqrt{5}-1}{\sqrt{5}+1}$, find the value of $x^2 + y^2 + xy$

Worksheet 2 Ch-2

1. Find the value of the following polynomial at the indicated value of variable:-
   i)   P(y) = $5y^2$ -3y + 7 at y = 1, -1
   ii)   P(x) = $3x^3$ -4x + $\sqrt{8}$ at x = 2
2. Verify whether the following are zeroes of the polynomial indicated against them.
   i)   P(x) = x^3 -$3x^2$ + 4x – 12; x = 3
   ii)   P(y) = y^4 – $3y^2$ + 2y + 1; y = 1
3. If x = $\frac{-1}{3}$ is a zero of polynomial P(x) = $27x^3$ -ax^2 -x + 3 then find the value of 'a'
4. If f(x) = $5x^2$ -4x + 5, find f(1) + f(-1) + f(0)
5. By the remainder theorem, find the remainder when P(y) is divided by g(y)
   i)   P(y) = $4y^3$ – $12y^2$ + 5y -4 and g(y) = 2y -1
   ii)   P(x) = $2\sqrt{2}x^3$ - $5\sqrt{2}$ x^2 + $7\sqrt{2}$, g(x) = x + 1
   iii)   P(x) = x^{51} + 51 ; g(x) = x + 1
6. If x + 1 is a factor of the polynomial $2x^2$ + kx , then find the value of k.

7. Divide $3y^4 - 8y^3 - y^2 - 5y - 5$ by $y - 3$ and find the quotient and remainder
8. Find the value of a and b so that $x + 1$ and $x - 1$ are factors of $x^4 + ax^3 + 2x^2 - 3x + b$
9. Factorise:-
    i) $2x^2 - 7x - 15$
    ii) $X^3 - 3x^2 - x + 3$
    iii) $3\sqrt{3}\ a^3 + 8b^3 - 27c^3 + 18\sqrt{3}\ abc$
    iv) $8a^3 - 27b^3 - 64c^3 - 72abc$
10. Simplify:-
    I) $(2x - 3y)^3 - (2x + 3y)^\#$
    II) $(x + y + z)^2 - (x - y + z)^2$
11. If $2x + 3y = 12$ and $xy = 6$, find the value of $8x^3 + 27y^3$
12. It is given that $3a + 2b = 5c$, find the value of $27a^3 + 8b^3 - 125c^3$ if $abc = 0$
13. If $a + b + c = 9$ and $ab + bc + ca = 26$ find $a^a + b^2 + c^2$
14. Using suitable identity evaluate:-
    $(-32)^3 + (14)^3 + (18)^3$
15. What must be added to $x^4 + 2x^3 - 2x^3 + x - 1$. So that result is exactly divisible by $x^2 + x - 2$?

Worksheet 3 Ch-3 & 4

1. Write the perpendicular distance of point P(4 , 3) from the y axis.
2. If $a < 0\ and\ b < 0$, then in which quadrant the point A(a , b 0 lies?
3. Write the coordinates of a point
    I)   Above the x-axis at a distance of 3 unit
    II)   below the x-axis at a distance of 8 unit
4. The three vertices of a triangle are (3 , 2), (-4, 2) and (-4, 5). Plot these points and find the coordinates of the fourth vertex.
5. Find the value of x and y :
    i)   (x + 3, 5) = (5, Y)
    ii)   (2, 2y -3) = (x , 7)
6. Draw the graph of the following equations in (i) one variable and (ii) in two variable
    i)   Y = -2   ii) x+6 = 0   iii) 2x + 1 = x − 3
7. Find at least 4 solutions of the equation $2x + 3y = 12$ and draw its graph
8. Find the value of k if x =1 and y = 2 is a solution of the equation $3x + ky = 13$.
9. The parking charges of the car in a parking is Rs. 30 for first two hours and Rs. 10/- for the subsequent hours. Taking total parking charges as Rs. Y and no. of hours as X. Write a linear equation into variable to express the above statement and draw its graph.
10. The food charges in the hostel are as follows: For the first day the charges are Rs. 100/- and the subsequent days it is Rs. 50/- per day.
    Taking total charges as Rs. Y and no. of days as Rs. X. Write a linear equation into variable to express the above statement and draw its graph.

Ch-6 Project work

Make a project on Lines and angles in your activity note book.

All the work should be done in separate note book.

(SCIENCE)

_____

_____
- **Make a scrap file and write activities and paste pictures for separating components of mixture as mentioned in chapter -2.**
  - **Make a collage based on types of cells.**

MATTER IN OUR SURROUNDINGS

1. A certain substance A cannot be compressed but takes up the shape of any container in which it is placed. What is the physical state of 'A'?
2. Which will have more density- solid or a liquid?
3. What is common unit for measuring volume?
4. In which physical states water exists at (a) 100^0C (b) 0^0C?
5. Is freezing point of water and melting point of iced is same?
6. Which are more energetic- liquids or gases?
7. Name different states of water.
8. Which will have more density- solid or liquid?
9. Why gases are compressive but not liquids?
10. How can the gases be liquefied?
11. What is the melting point of ice?
12. Which of these is/ are matter: apple, biscuits, coffee, toffee, soyabean oil, scent.
13. Which produces more severe burns: boiling water or steam at 100^0C?
14. Convert 270K into Celsius scale.
15. Convert 10^0C into Kelvin scale.
16. states of a substance and not different substances justify.
17. How can we liquefy gases?
18. Why do clothes take more time in drying on a rainy day?
19. How is heating of sugar and heating of ammonium chloride different from each other? Explain your answer.
20. Give reason for the following:
(i) Water at room temperature is liquid.
(ii) Which gas is called dry ice? Why?

FUNDAMENTAL UNIT OF LIFE: CELL

1. Name two major functional regions of a cell.
2. Every multi-cellular organism has come from a single cell. How?
3. Who discovered the nucleus in the cell?
4. Who discovered the cell?
5. What substances form cell membrane and cell wall?
6. Name two-cell organelles, which have DNA apart from nucleus.
7. Name the cell organelles that are found only in plant cell.
8. Name the cell organelle that is found only in animal cell.
9. Name the cell organelle in which cristae are present?
10. On what factors do shape and size of cell depend?
11. What are chromosomes? Where are they present in the cell?
12. Why is plasma-membrane called a selectively permeable membrane?
13. What will happen if the organisation of a cell is damaged due to certain physical or chemical reasons?

14. How do substances like CO2 and water move in and out of the cell?
15. Explain the terms. a) Endocytosis b) Plasmolysis
16. Write any four differences between the plasma membrane and cell wall.
17. Define- a) Diffusion   b) Osmosis
18. What are the types of plastids? Write their names and fuctions.
19. a) Why is the shape and size of the cells different? b) Who coined the term protoplasm? c) Name the cell organelle which controls the various activities of the cell.
20. Differentiate between prokaryotic and eukaryotic cell.
21. How does an Amoeba obtain its food?
22. What do you mean by a selectively permeable membrane?
23. Write the composition & function of the cell wall.

TISSUES

1. Give atSleast two locations where cartilaginous connective tissue is present in our body.
2. What are the other names of striated muscles?
3. What is middle lamella?
4. Name the meristematic tissue, which increases the thickness of plants.
5. Which tissue makes up the husk of coconut?
6. Write two functions of stomata?
7. How does a neuron look like?
8. Where is apical meristem found?
9. Name types of simple plant tissues.
10. Write a brief note on muscle tissue?
11. Justify and support your answer with two examples. (ii) Name the structure that receives impulse in neuron.
12. Q 33 What are the functions of connective tissue?
13. What are the differences between striated, unstriated and cardiac muscles?
14. Differentiate between: (a) Simple tissue and complex tissue (b) Parenchyma, collenchyma and sclerenchyma
15. (i) Name the plant tissue found in the husk of a coconut. (ii) Identify the chemical that is responsible for its stiffness. (iii) Give three ways in which it differs from parenchymatous cells.

MOTION

1. How is the position of an object described?
2. What is meant by body in motion?
3. What is meant by body at rest?
4. Why is uniform linear motion not an accelerated motion?
5. What is positive acceleration and negative acceleration?
6. What is meant by non-uniform velocity?
7. What is meant by uniform velocity?
8. Define velocity.
9. Define non-uniform motion.
10. Define uniform motion.

FORCE AND LAWS OF MOTION

1. Why does a boxer move his head backwards to minimize the effect of on-coming punch?
2. Briefly explain how an expert karate player breaks a slab of ice with a single blow
3. What is meant by balanced forces?
4. A swimmer swims forward, even though he pushes water backward while swimming. Why?
5. When a force acting on a body has an equal & opposite reaction, then why should the body move at all.
6. What do you mean by impulsive force?
7. Define impulse.
8. Define momentum.
9. What force is needed to produce an acceleration of 2 m/s2 in a body of mass 3kg?
10. Give a simple experiment to illustrate the inertia of rest.

Name: _____ Subject:**Social Science**

Date: _____/ _____/ _____   Class: **IX**

Dear Students,

This summer holiday homework is based on the topic of Natural Disaster which is very much a part of your social sciences curriculum.

Disaster management can be defined as the organization and management of resources and responsibilities for dealing with all humanitarian aspects of emergencies, in particular preparedness, response and recovery in order to lessen the impact of disasters.

India has been traditionally vulnerable to natural disasters on account of its unique geo-climatic conditions. Floods, droughts, cyclones, earthquakes and landslides have been recurrent phenomena. Over the past decade, between 1990-2000 an average of about 4344 people lost their lives and about 30 million people were affected by disasters every year. The loss in terms of private, community and public assets has been astronomical.

Significance of doing a project on disaster management in social sciences

As students of social sciences and as conscious citizens, doing a project on disaster management is going to give you a first-hand experience and opportunity to get yourself familiarise not only with the meaning, factors, etc. of disasters but also to learn the essentials of disaster preparedness and ways to collect relevant information pertaining to disasters and its effective dissemination.

Guidelines to complete your project report

- Topic for the project: Natural Disaster

  Task I: What are natural disasters?

    i.   Research using internet, newspaper, magazines, etc. about some of the more common natural disasters that out Earth faces.

    ii. Some of the topics that you can research on are:

      a) What is natural disaster?

      b) Various types of disasters

      c) Facts about storms

      d) What disasters usually occur in India

    iii. Pick one natural disaster (such as earth quake, flood, etc.) to focus on in your project.

- **Task II**: Preparing the collage / poster / brochure on A4 sheet.

    i.   Collect or the resources you require for your project such as pictures, text, quotations, etc.

    ii. If you are making a poster turn it into a colourful, information poster. The size of the poster should be a on A4 Sheet.

    iii. Be creative, colourful, informative and original in your project work.

- **Task III**: Presentation of your project work

    i.   You will have to present your project work in front of the class.

    ii. The date for the presentation will be given to you after the summer holidays.

    iii. You must be able to clearly explain what is on your poster / collage / brochure without reading.

    iv. The duration for your presentation will be 3 minutes.

- The project should be presented in the following format:

      a. *Topic title*

      b. *Name of the student*

      c. *Class*

      d. *The presentation should cover all aspects of disasters as mentioned at the beginning and should be presented in order systematically to give an appealing visual display*

  Read English Newspaper daily to increase your concentration

  Make a separate copy for the Assignment.

ASSIGNMENT
SOCIAL STUDIES

HISTORY

Ch-1 The French Revolution

1. Who was Rousseau?
2. Who all got the right to vote for National Assembly?
3. Describe the French division of Society?
4. What were the main causes of French Revolution?

GEOGRAPHY

Ch-1 India - Size and Location

1. In which hemisphere India located?
2. What is the significance of India's central location?
3. Why 82°30'E has been as the standard meridian of India?
4. Name the Union Territories of India.
5. Show the following in Map of India:
   - Tropic of Cancer
   - Standard Meridian
   - Southern Most
   - Northern Most
   - Eastern Most point of India

Ch-2 Physical Features of India

1. What are tectonic plates?
2. What was Gondwana land?
3. Write any three characteristics of central highlands?
4. Distinguish between Bhangar and Khadar soil.

DEMOCRATIC POLITICS

Ch-2 What is Democracy? Why Democracy?

1. What is Democracy?
2. Write demerits of democracy?
3. How did Musharraf establish his role in Pakistan?
4. Why is democracy considered the best form of Govt.?

ECONOMICS

Ch-1 The Story of Village Palampur

1. Why are the wages for farm labourers in Palampur less that minimum wages?
2. What are the main activities of the people of village of Palampur?
3. Differentiate between physical and human capital.
4. Is it important to increase the area under irrigation? Why?

Ch-2 People As Resource

1. What kind of unemployment exist in rural and urban areas?
2. What are economic activities?
3. "Japan has scarcity of natural resources yet it is a developed and rich country". Describe briefly three steps that helped Japan to become a developed country.
4. 'Unemployment has a detrimental impact on the overall growth of an economy.' Justify the statement.
   Happy holiday and happy learning!!!!

INFORMATION TECHNOLOGY-CLASS IX

1. Make a presentation on Input/Output/Storage device, stating use of each (soft copy to be submitted in cd)
2. Surf the internet and find the applications of computer(with the areas where computers are being used with their images) and write in your school notebooks.
3. Make a list of abbreviations commonly used from the chapter Computer Fundamentals in school notebook.
4. Explain IPO Cycle with a neat diagram.(A4 sheet)
5. VIVA OF 10 MARKS FROM HHW

Drawing class-IX
1. On A3 size Ivory sheet make a poster on**Heritage India** .

2. Make a beautiful craft work and submit it for an Art Exihibition**.**

संत निरंकारी पब्लिक विद्यालय

ग्रीष्मावकाश कार्य (2018-19)

विषय - हिंदी 'ब'

कक्षा - नवीं

सामान्य निर्देश : संपूर्ण कार्य अलग उत्तरपुस्तिका में करना है। सफाई का ध्यान रखें।

खंड 'क' अपठित बोध

प्रश्न- किसी भी पुस्तक से 5 गद्यांश व 5 पद्यांश लेकर हल कीजिए

खंड 'ख' व्यावहारिक व्याकरण

प्र.1.   वर्ण विच्छेद कीजिए:

वृक्ष, ख्याति, पंकज, मौलवी, आंदोलन, मनोविकार, प्रदर्शन, ममत्व, उद्यम, आहार, आनंद, मोहक, शिवरात्री, क्षत्रिय, परमेश्वर, अनुप्रास, विशिष्ट, औषधि, दयालु, पुष्पित

प्र.2. (क)   निम्नलिखित शब्दों में से उचित स्थान पर लगे अनुनासिक के प्रयोग वाले शब्द चुनकर लिखिए-

ऊँट, काँपना, मुँह, जाँन, हँसमुख, गवाँर, सँवारना, उँगुली, नींद, दिनांक, माँग, हँसना, महँगाई कुआँ, चाँद

(ख) निम्नलिखित शब्दों में से उचित स्थान पर लगे अनुस्वार के उचित प्रयोग वाले उदाहरण चुनकर लिखिए:-

कंपन, निंदा, जलवां, आनंद, कंचन, काटां, संगमरमर, प्रारंभ, कुंडली, दंडित, नींद, कंही, सख्या, आडबंर, निरंतर

प्र.3.   (क) निम्नलिखित शब्दों में उचित स्थानों पर नुक्ते का प्रयोग कीजिए-

अखबार, साफ, गैरजरूरी, गुजारिश, मरीज, जरा, शराफत, खारिज, जमीन, गजल

(ख) संधि विच्छेद कीजिए

जगन्नाथ, भाग्योदय, वधूत्सव, तल्लीन, सज्जन, लघूर्भि, दीर्घायु, उत्युत्तम, मतैक्य, सिंहासन

(ग) संधि कीजिए

भो+अन, सम्+योग, अति+अधिक, एक+एक, सदा+एव, दुर+आचार, सिंह+आसन, मत+अनुसार, नर+इंद्र, भाग्य + उदय

खंड 'ग' पाठ्य पुस्तक व पूरक पुस्तक

प्र.1. निम्नलिखित प्रश्नों के उत्तर पठित पाठों के आधार पर दीजिए।

(क) मनुष्य के जीवन में पोशाक का का क्या महत्व है? पोशाक देखकर हमें क्या पता चलता है?

(ख) पोशाक हमारे लिए, कब बंधन और अड़चन बन जाती है?

(ग) भगवाना कौन था? वह अपने परिवार का निर्वाह कैसे करता था?

(घ) लड़के को बचाने के लिए माँ ने क्या क्या उपाय किए?

(ङ) 'दुःख का अधिकार' पाठ का शीर्षक कहाँ तक उचित है? स्पष्ट कीजिए।

(च) गिल्लू पाठ में गिल्लू के बारे में क्या बताया गया है?

(छ) पशु-पक्षियों को पालना आपकी दृष्टि में कहाँ तक उचित है? आप अपना अनुभव लिखिए?

(ज) कुएँ में उतरकर चिट्ठियों को निकालने संबंधी साहसिक वर्णन को अपने शब्दों में लिखिए?

(झ) साँप का ध्यान बँटाने के लिए लेखक ने क्या-क्या युक्तियाँ अपनाई?

(ञ) 'अब कैसे छूटे राम नाम रट लागी' पद का प्रतिपाद्य क्या है?

(ट) ''ऐसी लाल ..... सरै' पद में कवि अपने आराध्य की क्या-क्या विशेषताएँ बताता है? उसकी कृपा को वह कैसे अनुभव करता है?

(ठ) रहीम के अनुसार प्रेम का धागा टूटने पर पहले की भाँति क्यों नहीं हो पाता?

(ड) रहीम ने सागर की अपेक्षा पंक जल को धन्य क्यों कहा है?

(ढ़) 'जहाँ काम आवै सुई, कहा करै तरवारि', आशय स्पष्ट कीजिए।

(ण) मोती, मानुष, चून के संदर्भ में पानी के महत्त्व को स्पष्ट कीजिए।

खंड 'घ' (लेखन)

प्र.1 निम्नलिखित विषयों पर संक्षिप्त अनुच्छेद लिखिए। महंगाई की समस्या, श्रम का महत्त्व, परोपकार, समय की सदुपंयोग, प्रदूषण की समस्या

प्र.2. कोई भी 3 विषय लेकर उन पर अनौपचारिक पत्र लिखिए।

प्र.3. निम्नलिखित संवादों को लिखिए-

(क) डॉक्टर और रोगी के मध्य

(ख) बढ़ती जनसंख्या पर दो मित्रों के बीच

(ग) फिल्म देखने के पश्चात् दो मित्रों के बीच

प्र.4. निम्नलिखित विषयों पर आकर्षक विज्ञापन तैयार कीजिए।

(क) साड़ियों की बिक्री पर

(ख) जूस शेक कार्नर के प्रचार हेतु