

# SAINIK SCHOOL KALIKIRI



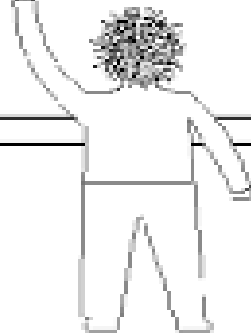
## SUMMER OWN TIME WORK CLASS X

“When I'm in school  
I wanna be on vacation  
When I'm on a vacation  
I wanna go back to school  
Why does it have to be so  
complicated?”



# MATHEMATICS

$$2 + 2 = (\sqrt{27} + (\sin \Theta)^2 + (\cos \Theta)^2) \cdot \int \cos \Theta \, d\Theta =$$



NAI

## Why Einstein Flunked Math

### MATH IN DAILY LIFE

How do numbers affect everyday decisions?

+25124353124353

56542109874365

9644



# MATHEMATICS

**ACTIVITY 1:** Prepare Concept map/mind map for any three of the following themes.

- Number System
- Algebra
- Mensuration
- Geometry
- Probability
- Statistics



**Free tools those can be used to make concept maps:**

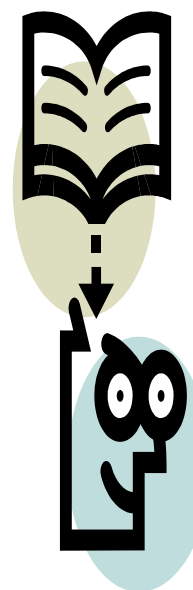
Cmap, Spider, Scribe, <https://bubbl.us/>

**ACTIVITY 2:** Make a presentation or project describing the real life applications of math.

## Optional Home Work

Solve the practice problems given in the additional worksheets for the following chapters.

- a. Real Numbers
- b. Polynomials



# Science



# Physics

Q1	Make mind map on the following topics in A3/A4 paper: a) Electricity b) Potential Difference, Current , Resistance c) Combination of resistors
Q2	Make concept map on the following topics in A3/A4 paper: a) Magnetic effect of electric current
Q3	Optional work Solve problems given in worksheet.

# Chemistry

Q1	Make mind map on the following topics in connection with classes VII, VIII & IX: a) Atoms & Molecules b) Structure of Atoms c) Acids, Bases & Salts
Q2	Optional work Draw electronic structure of atoms from atomic number 1 till atomic number 30.

# Biology

Q1	Prepare a model of Digestive system / Respiratory system / Transport system (Heart)/ Excretory system /neuron of your choice using waste materials. OR
Q2	Prepare a chart on any 3 disorders or Deficiency diseases caused to humans related to digestive system/ Respiratory system / Circulatory system (Heart)/ excretory system of your choice. Collect pictures and related information ,causes for those disorders or diseases, Symptoms and Preventive methods.
Q3	Prepare a model of neuron or brain using low cost materials

# What my social studies teacher tells us



# Geography

Q1	“The use of Non conventional resource of energy is becoming necessary in our country” .Give three reason to support this statement.
Q2	What are the major sources of energy in rural household of India? Identify the major problems faced due to these sources. Give suggestions to solve these problems.
Q3	Discuss the steps to be taken to minimize the environmental degradation by industries.
Q4	Suggest any 10 measures to solve the problem of land degradation in your locality.
Q5	Why is groundwater a highly overused resources? Give reasons.

# Political science

Q1	Prepare a list of federal countries of the world.
Q2	What are the major features of federalism?
Q3	Describe the ethnic composition of Srilanka and Belgium.
Q4	Describe the way in which power can be shared among governments at different level.
Q5	On the map of India locate and label the given soil types a. Alluvial b. Red c. Yellow d. Laterite soil

# **History**

1	Mind Maps and flow charts from History Chapters
2	Timelines from Nationalism in India and The rise of European Nationalism
3	Map pointing from the chapter Nationalism in India
4	New subject jargons/terminology and glossary on all chapters.



# Economics

## Individual Assignments

### INDIVIDUAL ASSIGNMENT

- ❖ Bring holiday homework in a beautifully decorated folder.
- ❖ Parents are requested to only guide their children while doing the assignment.
- ❖ Originality of the work will be appreciated.
- ❖ Project / Homework will be assessed on the basis of neatness, creativity and originality of ideas.
- ❖ Cadets can select assignment roll number wise.

1. National Development: How to Compare Different Countries or States?
2. Discuss about Public Facilities:
3. Briefly mention the factors which are important goals in our life.
4. Distinguish between developed and under developing countries.
5. Sustainable development and principles?
6. Explain Body mass index with example?
7. Discuss about Human development index?
8. What is difference between economic growth and economic development?
9. Do you think the classification of economic activities into primary, secondary and tertiary sector is useful? Explain how?
10. Make a long list of all kinds of work that you find adults around you doing for a living. Classify them into Primary, Secondary, tertiary, organized unorganized, public & private sector?
11. Give a few examples of public sector activities and explain why the government has taken them up.?
12. What do you understand by underemployment? Why it also known as disguised unemployment? Who are underemployed in the service sector a why.
13. What are the ways to tackle underemployment?
14. Why do we need to expand formal sources of credit in India?
15. Explain informal sources of credit in India?
16. Why are transactions made in money? Explain with suitable examples.
17. Discuss the role played by Grameen Bank of Bangladesh in improvement of conditions of the poor women?
18. Explain the social and economic values for which it is necessary to expand formal sources of credit in India?

# Economics (Cont.)

## Individual Assignments ( Cont. )

19. Describe the values for which SHGs have become advantageous for the rural poor?
20. What is the function of money?
21. What are the advances and disadvantages of better system?
22. What is meant by integration of production and integration of markets? What values do you learn from?
23. How has the information and communication technology proved valuable for globalization?
24. Why do developed countries want developing countries to liberalize their trade and investment? What do you think should the developing countries demanded in return?
25. Explain the need for consumer consciousness by giving two examples?
26. What legal measures were taken by the government to empower the consumers in India?
27. What information should we look for while buying medicines?
28. Write a short note on consumers international.
29. How does a consumer court compensate a consumer? Illustrate with examples.
30. "For some products like LPG cylinders, food colors and additives, cement, packaged drinking water, it is mandatory on the part of the producer to get goods certified by the government organization.
31. Field work Go to a branch of a bank along with your parents and collect the following information (i) Number of employees in the branch (ii) Working hours of the bank (iii) Total deposits and total loans given by the bank (iv) Main facilities that are provided by the branch to the customers (v) At what rate of interest housing loans and car loans are provided by the bank.
32. Collect the pictures of some branded products of soap, toothpaste, garments, electric goods etc. and paste them in your note book. Check and write which of these products belong to which MNC in your note book.
33. Compare the changes in the per capita income of India, Pakistan and China since 2010- 2018?
34. Which was the largest producing sector in India? What was its contribution to total GDP?
35. Measures to remove unemployment explain with help MGNREGA program?
36. Why do poor people in rural areas prefer to borrow from informal sources?

# English

DEAR EGNLIH TECAEHR,  
AS LNOG AS THE FSRIT &  
LSAT LTETER R IN THE  
SMAE PALCE, U CAN SILTL  
RAED TIHS.

SINCERELY,  
SLPELNIG IS NOT TAHT  
IPMRONTAT

# English

Q1	Rewrite the stories of Two Gentlemen of Verona and The Frog and The Nightingale using key cue words in the third person narration.
Q2	Download /collect CBSE class X English board Exam Question Paper 2018 or any model paper and solve it. Make a neat presentation of answer sheet in A4 sheet with page lay out in landscape.
Q3	<p>Write an imaginary story with a suitable title in 200 – 225 words.</p> <p>Enjoying a cup of tea while sitting on my balcony on a Sunday morning suddenly I felt deep pain in my chest. I thought this was the last moment of my life. I wanted to call my daughter, my husband and everybody to say the final Good Bye, but couldn't do so...</p>
Q4	Write an article on "SPECIAL EDUCATION". Mention any two/three such schools in India and give the examples of any two personalities who received Special Education and were accomplished in life. Collect the biography of any such personality with pictures of important characters and event of her/his life.

# తెలుగు



అడవిలో పుట్టాను  
మేదరింట్లో మెలిగాను  
వంటినిండా గాయాలు  
కడుపునిండారాగాలు.



మురళి



ఏమిటది ?

# తెలుగు

Q1	వార్తా పత్రికలు, మాతృ భాషలో విద్యా బోధన, వాతావరణ కాలుష్యము అను అంశములపై వ్యాసమును సొంత మాటల్లో రాయండి.
Q2	అ. ఆ యేమీ! ---- మోర్వన్ జుమీ! అనుచున్ ----- సోన్ దేవునిన్ శివ రాజంతట --- సైరింపుమీ! అనల జ్యోతుల ---- సాగునే? అను పద్యములకు ప్రతి పదార్థ భావములు రాయండి.
Q3	సమాసములు : ద్విగు, ద్వంద, రూపక, బహువ్రీహి సమాసముల గురించి ఉదాహరణ సహితముగా రాయండి.
Q4	చందస్సు : ఉత్పలమాల, చంపకుమాల, మత్తేభము, శార్దూలము వృత్త పద్యలక్షణాలను రాయండి.
Q5	అలంకారాలు: ఉపమ, అతిశయోక్తి, అర్థాంతరన్యాస,
Q6	క్రమాలంకారాలను గురించి ఉదాహరణ సహితముగా రాయండి. మాతృ భావన, అమరావతి మరియు జానపదుని జాబు పాఠ్యాంశములు చదవవలెను.

# हिन्दी

हिन्दी हमारी  
मातृभाषा है;  
मात्र  
एक भाषा  
नहीं.

# हिन्दी

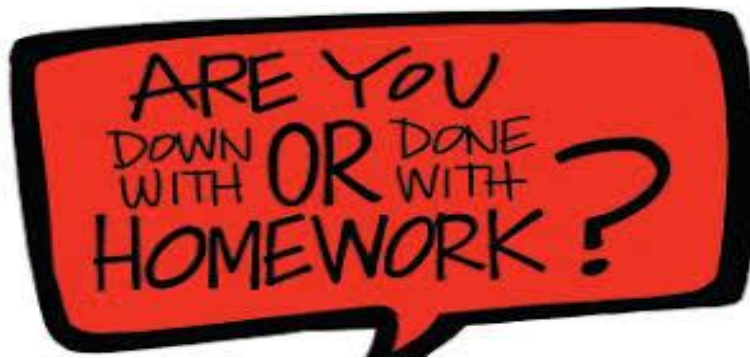
क्रम संख्या	दीप्तिमान छात्र
1	अलंकार भेद के दस-दस उदाहरण लिखिए
2	पाठशाला में पुस्तक प्रदर्शनी के लिए विज्ञापन लिखिए।
3	विद्यालय का वार्षिक खेल -दिवस मनाया जाएगा जिसमें पुराने विद्यार्थी और अभिभावक आमंत्रित हैं, समय और स्थान की सूचना देते हुए विज्ञापन लिखिए।
4	'ऊर्जा बढ़ती मांग-समस्या और समाधान' विषय पर निबंध 200-250 शब्दों में लिखिए।
5	'स्वच्छ भारत एक कदम स्वच्छता की ओर' विषय पर निबंध 200-250 शब्दों में लिखिए।
6	आज दिन-प्रतिदिन सूचना और संचार लोगों के बीच लोकप्रिय होते जा रहे हैं। ऐसे में पत्र लेखन पीछे छूटता जा रहा है। पत्र लेखन का महत्व बताते हुए अपने मित्र को पत्र लिखो।

क्रम संख्या	मंदग्राही छात्रों के लिए
1	प्रत्यय शब्द -50, उपसर्ग शब्द - 50
2	अलंकार भेद के दस-दस उदाहरण लिखिए
3	पाठशाला में पुस्तक प्रदर्शनी के लिए विज्ञापन लिखिए।
4	विद्यालय का वार्षिक खेल -दिवस मनाया जाएगा जिसमें पुराने विद्यार्थी और अभिभावक आमंत्रित हैं, समय और स्थान की सूचना देते हुए विज्ञापन लिखिए।
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## Computer Science

Q1	Create a gmail id in google, yahoo mail id in yahoo and microsoft outlook email id in below format? Ex: name_roll <a href="mailto:no_house_class@outlook.com">no_house_class@outlook.com</a> <a href="mailto:ashok18p8@outlook.com">ashok18p8@outlook.com</a> (i.e. ashok is name, 18 is roll no, p is penna house and 9 is 9th class)
Q2	Write any two creative ideas through which you want to see the change in the present technological/ real world.
Q3	Take and two generally used systems in the real world and identify its System Development Life Cycle in simple?



PS.- "Dear **Google**, thank you for doing most of my homework for me. You are **amazing.**"

**"VACATION BRINGS IN JOY  
IT BRINGS IN HAPPINESS AND  
IT BRINGS IN GLEE  
GIVES A CHANCE TO LOVE  
AND A CHANCE TO BE LOVED**



**VACATION MEANS QUALITY TIME  
WHEN  
STORIES ARE SHARED  
JOKES ARE LAUGHED AT  
ANECDOTES ARE REMEMBERED  
AND THE TIME IS WELL SPENT**

**VACATION USHERS IN DELIGHT  
WHEN  
IT IS TIME TO UNWIND AND TIME TO CATCH UP  
IT GIVES MOMENTS TO CHERISH  
AND MEMORIES TO WEAVE IN,  
AND REMINISCES TO LAST A LIFETIME"**

**Dear parents,**

*It is indeed a pleasure to be associated with your child and through him, be connected to you. It is a matter of great honour for all of us that you have bestowed on us the responsibility of your child and we realise the magnitude of this faith in full earnest. It prompts us to take care of your child as our own. A child in his growing up years undergoes many challenges like emotional upheavals, peer pressure, parental pressure, academics, adolescence related issues etc. Our role as educators is not only to take care of their academics but also to identify the worrying symptoms and give them an atmosphere of well being at all times. Me and my staff are committed towards this approach.*

*As we go into vacation, I thought of sharing with you our recommendations for the quality time that you are going to spend with your child:-*

1. **Communicate** - Communicate with your child as much as possible, try and get an insight into his life here in the school.
2. **Pamper** - Pamper your child because that is one thing **WHICH EVERY CHILD DESERVES** and we are not able to do it here being a boarding school.
3. **Party** - Party with your child. When I say party it doesn't mean going out with friends in a restaurant, It means making small little moments on a weekend or a Sunday count. Maybe by having Coke Party or Pajama Party.
4. **Shop** - Shopping relieves stress it is said. Go on a shopping spree, buy clothes, shoes etc as far as possible.
5. **Picnic** - Picnics are great family time activity. Go for picnics, make your own food in the woods, play badminton and volleyball.
6. **Visit Places** - If time and money allow, go to visit places like some beach or a historical place or a religious place.
7. **Undertake a Journey Together.** A family needs to undertake a journey together. It may be train, flight or a simple long drive. It will unwind your child.



8. **Watch a movie in Theatre.** Eating popcorns and watching a movie in the theatre is a dream come true for most of the children. Do this activity with them.
9. **Allow them to Cook food.** Allow your child to cook a meal for you of course under parental guidance. Let them pamper you also.
10. **Buy story books.** Every vacation that he comes to you, buy him atleast 4-5 books. Slowly he will have a small library which he will be proud of.
11. **Go for Trekking.** Go on a trekking/hike with your son. It is a great bonding activity.
12. **Hand over the TV remote to him.** For the time that he is there with you, let him own that TV remote. Let him watch cartoons, funny movies etc
13. **Play with him.** Nothing gives greater joy to a child if the parent plays with him. Sweat it out together!
14. **Have all Meals Together.** Try and have all meals together. It is great to bond over food.
15. **LET THEM LAZE!** Let him laze around. They have a very strict regimen in this school but when he comes to you during vacation, let him not do anything if that's what he desires.

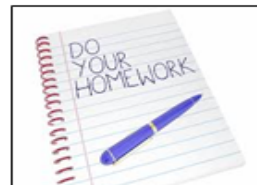


Dear Parents, the **FAMILY IS THE MOST VALUABLE POSSESSION** anyone can have. **GIVE THEM A GOOD FAMILY TIME** while they are with you

**Dear Cadets,**

You have heard enough lectures from me, so my suggestions to you for this vacation will be crisp, short and clear!

- |                        |           |                      |
|------------------------|-----------|----------------------|
| 1. Sleep               | but ..... | Finish your Homework |
| 2. Eat                 | but ..... | Finish your Homework |
| 3. Go for shopping     | but ..... | Finish your Homework |
| 4. Watch movies        | but ..... | Finish your Homework |
| 5. Visit Friends       | but ..... | Finish your Homework |
| 6. Go for picnics      | but ..... | Finish your Homework |
| 7. Watch television    | but ..... | Finish your Homework |
| 8. Read story books    | but ..... | Finish your Homework |
| 9. Make new friends    | but ..... | Finish your Homework |
| 10. Do mischief        | but ..... | Finish your Homework |
| 11. Buy a pet          | but ..... | Finish your Homework |
| 12. Go for Hike        | but ..... | Finish your Homework |
| 13. Go for Run         | but ..... | Finish your Homework |
| 14. Join a Summer Camp | but ..... | Finish your Homework |
| 11. ENJOY              | but ..... | Finish your Homework |



Sincerely Yours  
Lieutenant Colonel Ishani Maitra  
Vice Principal