SAINIK SCHOOL AMBIKAPUR

WINTER VACATION HOMEWORK / ASSIGNMENT

CLASS 6

SER NO	SUBJECT	SUB TEACHER	HOMEWORK
1.	ENGLISH	Mr Prakash Tiwari Mr Sudhir Kumar Mr Ashish Tiwari	1. Word meanings from chapter no 9,10 from both books (15 word meaning from each chapter) 2. **GRAMMAR** • 20 examples based on the usage of 'Conjunctions' • 15 examples based on the usage of 'Determiners' 3. **READING** • Read any two English poems and write their paraphrase.(100 words each) 4. **SCRAP BOOK:** Prepare a Scrap Book containing events related to National & International Politics, Sports, Cinema and Contemporary issues of December 2019.
2.	HINDI	Mr Ravindra Tiwari Mr AM Tripathi Mr Rajesh Kumar	1. निबंध लिखो – (i) गणतंत्र दिवस, (ii) पर्यावरण। 2. अवकाश हेतु प्रार्थना पत्र लिखिए।
3.	MATHS	Mr SK Pandey Mr TS Rao Mr TM Rao	1. The marks of a student in different subjects are given below. Draw a Bar Graph for the given data: {{TABLE1}} 2. The following table shows the favorite sports of 250 students of a school. Represent the data by a bar graph. {{TABLE2}} 3. The data given below shows the average rainfall (in cm) in Udaipur from June to November of a certain year. Draw a bar Graph to represent this information. {{TABLE3}}
4.	SCIENCE	Mr KPC Rambabu Mr MK Rajak Mr SK Dubey	1. Make a simple electric circuit by using BATTERY, SWITCH, CONNECTING WIRES, ELECTRIC BULB.
5.	SOC SCI	Mr Shivesh Rai Mr AR Khan Mrs Madhu Gupta	1. What are the main teachings of Gautam Buddha? 2. Mark all the states and union territories on political map of India.
6.	SANSKRIT	Mr SK Jain	1. पाठ क्रमांक नवमः **क्रीडा स्पर्धा** के आधार पर किसी एक खेल के सम्पूर्ण नियमों को हिन्दी अथवा संस्कृत में लिखकर लाना है ।
7.	COM SCI	Mr Roushan Kumar	1. Write the steps for the following :- (i) Save a file in Flash CS3. (ii) Opening an already saved Flash document. 2. What is the difference between the Pencil Tool and the Brush Tool?

Table 1:

Subject	Hindi	English	Maths	Science	Social Science
Marks	43	56	80	65	50

Table 2:

Sports	Cricket	Football	Tennis	Badminton	Swimming
No.of. Students	75	35	50	25	65

Table 3:

Month	June	July	Aug	Sep	Oct	Nov
Average Rainfall	25	30	40	20	10	5

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CLASS 7

SER NO	SUBJECT	SUB TEACHER	HOMEWORK
1.	ENGLISH	Mr Prakash Tiwari Mr Sudhir Kumar Mr Ashish Tiwari	1. Word meanings from chapter no 9,10 from both books (15 word meaning from each chapter) 2. **GRAMMAR** 20 examples based on the usage of 'Conjunctions' 15 examples based on the usage of 'Determiners' 3. **READING** Read any two English poems and write their paraphrase.(100 words each) 4. **SCRAP BOOK:** Prepare a Scrap Book containing events related to National & International Politics, Sports, Cinema and Contemporary issues of December 2019.
2.	HINDI	Mr Ravindra Tiwari Mr AM Tripathi Mr Rajesh Kumar	1. बाल महाभारत – पाठ संख्या 30 से 35 तक का सार लिखो।
3.	MATHS	Mr SK Pandey Mr TS Rao Mr TM Rao	1. Construct the triangle ABC with the following measurements. a) AB = 6cm, BC=7cm and AC=8cm b) BC=8cm, ∠B=75˚ and AB=5cm. c) AC=5 cm, ∠A=60˚ and ∠B=30˚ d) AC=10cm, AB=8cm and ∠B=90˚
4.	SCIENCE	Mr KPC Rambabu Mr MK Rajak Mr SK Dubey	1. Make a model of Sand Clock which can measure a time interval of 2 min (NCERT) extend learning activity no 3, Pg no 159)
5.	SOC SCI	Mr Shivesh Rai Mr AR Khan Mrs Madhu Gupta	1. Write a short note on sultanate period. 2. Mark all the countries in North and South America.
6.	SANSKRIT	Mr SK Jain	1. पाठ क्रमांक दशमः **विश्व बधुत्वम्** के आधार पर विश्व में कैसे भाईचारा हो विषय पर एक 500 शब्दो में निबंध लिखिए ?
7.	COM SCI	Mr Roushan Kumar	1. Create a simple web page using HTML giving information about computer viruses.

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CLASS 8

SER NO	SUBJECT	SUB TEACHER	HOMEWORK
1.	ENGLISH	Mr Prakash Tiwari Mr Sudhir Kumar Mr Ashish Tiwari	1. Word meanings from chapter no 9,10 from both books (15 word meaning from each chapter) 2. **GRAMMAR** 20 examples based on the usage of 'Conjunctions' 15 examples based on the usage of 'Determiners' 3. **READING** Read any two English poems and write their paraphrase.(100 words each) 4. **SCRAP BOOK:** Prepare a Scrap Book containing events related to National & International Politics, Sports, Cinema and Contemporary issues of December 2019.
2.	HINDI	Mr Ravindra Tiwari Mr AM Tripathi Mr Rajesh Kumar	1. पाठ का सार लिखो – नयी समस्याएं (भारत की खोज) लिखो।
3.	MATHS	Mr SK Pandey Mr TS Rao Mr TM Rao	1. To make cube and cuboids of given dimensions using unit cubes and to calculate volume of each: a) 4 x3x2 b) 3x3x3 2. To explore the relation between a) Length(in cm) and perimeter (in cm) b) Length (in cm) and area (in cm^2) of 5 squares of different dimensions drawn on a squared paper. To draw the front view, top view and side view of the two given shapes made by unit cubes.
4.	SCIENCE	Mr KPC Rambabu Mr MK Rajak Mr SK Dubey	1. Imagine that friction suddenly vanishes. How life would be afftected. List 10 such situations.
5.	SOC SCI	Mr Shivesh Rai Mr AR Khan Mrs Madhu Gupta	1. Mark all the countries in Europe. 2. Describe the judicial system of India.
6.	SANSKRIT	Mr SK Jain	1. पाठ क्रमांक दशमः **नीति नवनीतम्** के आधार पर भारतीय संस्थानों के ध्येय वाक्य को लिखकर लाना है (लगभग 20) जैसे वायु सेना का ध्येय वाक्य है **नभः स्पृर्श दीप्त**
7.	COM SCI	Mr Roushan Kumar	1. Using html, create web pages on the topic "Pollution". The Home Page should give the definition of pollution and discuss its various types. Create a link from this page to other pages giving details about respective types of pollution. Here we have created pages for *air pollution* and *water pollution* just for guidance. Students are required to create Web pages for *land pollution* and *noise pollution*.

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WINTER VACATION HOMEWORK / ASSIGNMENT

CLASS 9

SER NO	SUBJECT	SUB TEACHER	HOMEWORK
1.	ENGLISH	Mr Prakash Tiwari Mr Sudhir Kumar Mr Ashish Tiwari	1. Word meanings from chapters no 9 and 10 from both books (10 word meanings from each chapter) 2. Q- First 12 roll number i.e. roll number 1 to 12 should prepare minimum 5 question from chapter 10 of **BEEHIVE**. 3. Q- Roll number 13 to 35 should prepare minimum 5 question from chapter 10 of **MOMENTS** 4. **ASSIGNMENT** Sample Article and Descriptive Paragraph. 5. **Scrap Book:** Prepare a Scrap Book containing events related to National & International Politics, Sports, Cinema and Contemporary issues of December 2019.
2.	HINDI	Mr Ravindra Tiwari Mr AM Tripathi Mr Rajesh Kumar	1. 'अलंकार' की परिभाषा एवं भेद उदाहरण सहित लिखो।
3.	MATHS	Mr MSN Raju, Mr Raj Kumar	1. 20 problems from constructions 2. 10 problems from circles 3. 10 problems from quadrilaterals
4.	SCIENCE	Mr MSN Raju Mr Raj Kumar	1. Prepare a table of composition of atoms of the first 18 elements with electron distribution in various shells. Also draw schematic atomic structure of the first 18 elements.
5.	SOC SCI	Mr Shivesh Rai Mr AR Khan Mrs Madhu Gupta	1. Prepare a report on any one national park and wild life sanctuary in India. Write a short note on Adolf Hitler.
6.	SANSKRIT	--	--
7.	COM SCI	Mr Roushan	1. Demonstrate the application of cell referencing using any spreadsheet package and explain its types with suitable examples.

SER NO	SUBJECT	SUB TEACHER	HOMEWORK
1.	ENGLISH	Mr Prakash Tiwari Mr Sudhir Kumar Mr Ashish Tiwari	1. Word meanings from chapter no 9 and 10 from both books (10 word meanings from each chapter) **Q3-** School no. 1 to 8, each cadet have to write three quiz question from chapter 10. 2. **First flight** **Q4-** School no. 9 to 16, each cadet to prepare three questions from chapter 10 for class quiz 3. **First flight** **Q5-** School no. 17 to 25, each cadet to prepare three questions from chapter 9 for class quiz 4. **Footprints without feet** **Q6-** School no. 17 to 25, each cadet to prepare three questions from chapter 8 for class quiz 5. **Assignment** **1 letter of complain** 6. **Scrap book:** Prepare a scrap book containing events related to national & international politics, sports, cinema and contemporary issues of December 2019.
2.	HINDI	Mr Ravindra Tiwari Mr AM Tripathi Mr Rajesh Kumar	1. 'पद परिचय' की अवधारण को समझाइए। 2. 'संगतकार' कविता का सारांश अपने शब्दों में लिखो।
3.	MATHS	Mr SK Pandey Mr TS Rao Mr TM Rao	1. Working model of geometry/model of 3D shapes? 2. Find the median of the following data by using graphical method and hence verify the median by using the formula: table below 3. Solve the following pair of linear equations by graphical method $2x+5y=8$; $7x-3y=15$
4.	SCIENCE	Mr MK Tripathi Mr R Madanlal Mr Dipankar Tiwari Mr Shasi Kant Mrs Deepshikha Kujur	**Biology :** 1. Make a project on emission norms of government of India for carbon dioxide gas in vehicles. **Physics :** 2. Make a written project on Human Eye. **Chemistry :** 1. Find out from internet source about preparation of soaps and detergents and describe about structure of soap molecule and its cleansing action.
5.	SOC SCI	Mr Shivesh Rai Mr AR Khan Mrs Madhu Gupta	1. Differentiate between Non Cooperation Movement and Civil Disobedience Movement ?

Maths Q2 table:

Classes	5-10	10-15	15-20	20-25	25-30	30-35	35-40
Frequency	2	12	2	4	3	4	3

6.	SANSKRIT	--	--
7.	COM SCI	Mr Pradeep Dangre	**Make a Computer generated project in Stick file :** 1. WAP in python to accept a number 'x' and its power 'n' and compute x^n. 2. WAP to calculate Simple Interest for P,R,T. 3. WAP to accept the value of P, B and calculate H of any rt. angled triangle . 4. WAP to accept a number and print its Table. 5. WAP to accept the value of a,b,c of any Quadratic Equation and display its roots with the nature of roots. 6. WAP to accept the r, h of right circular cone and cylinder and display the CSA, TSA and Vol of Cone and Cylinder. 7. WAP to accept a year and check whether it is Leap year or not. 8. WAP to accept a number and check whether it is (+)ive, (-)ive or zero. 9. WAP to accept a number and check whether it is even or odd. 10. WAP to accept any number check whether it is Prime or not.

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WINTER VACATION HOMEWORK / ASSIGNMENT

CLASS 11

SER NO	SUBJECT	SUB TEACHER	HOMEWORK
1.	ENGLISH	Mr B K Pandey	Keep newspaper articles of 450-600 words, one every day and make NOTES and summary of each.
2.	HINDI		
3.	MATHS	Mr MSN Raju, Mr Raj Kumar	Miscellaneous exercise problems from (a) Trigonometric Functions (b) Limits and Derivatives (c) Sequence and Series (d) Straight Lines
4.	SCIENCE	Mr MK Tripathi Mr R Madanlal Mr Dipankar Tiwari Mr Shasi Kant Mrs Deepshikha Kujur	**Biology :** 1. Make a project work on common diseases prevalent in your area. **Physics:** 1. Complete physics practical note book. 2. Prepare an investigatory project on any topic related to the syllabus taught. **Chemistry :** 1. Find out importance of hydrogen as a fuel and about 4th and 5th state of matter. Also practice exercise of chapter hydrogen and state of matter from book.

5.	COM SCI	Mr Pradeep Dangre	Computer Science – Python
			Make a Computer generated project in Stick file :
			1. WAP to accept a positive number from user and check whether it is Prime or not.
			2. WAP to print the list of Armstrong numbers between 100 to 999.
			3. WAP to accept a decimal number and print its Binary Equivalent.
			4. WAP to accept two positive numbers in increasing order and print in between tables.
			5. WAP to accept a number and check whether it is Palindrome or not.
			6. WAP to print the FIBBONACCI Series up to :- a) certain limit b) No. of terms
			7. WAP to print the given Patterns :
			
			   a) 0 b) 1
			     1 0 1 2
			     0 1 0 1 2 3
			     1 0 1 0 1 2 3 4
			8. WAP to accept a character from user check whether it is uppercase, lowercase, space, digit or a special symbol.
			9. WAP to accept the value of n,r in which n>=r and computer C(n,r) and P(n,r).
			10. WAP to accept a number check whether it is Perfect number or not.

| | | | | 11. An Electric distribution company charges its domestic consumes as follows:

Consumption Unit	Rate of Charge
0 – 200	Rs 0.50/unit
201 – 400	Rs100+Rs0.65/unit in excess of 200.
401 – 600	Rs 230 + Rs 0.80/unit in excess of 400
600 above	Rs 390 + Rs 1.00/unit in excess of 600

WAP to print Electric Bill & include Rs 25/- as computer printing charges.

12. WAP to generate a given pattern:
```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

13. WAP to accept a number and print its factorial.

14. WAP to print rhe sum of the series :-
$x + x^2/2! + x^3/3! + x^4/4! + \ldots$ (value of x given by user)

15. WAP for Bubble Sort in python without using function.

16. WAP for Linear Search without using library function in Python.

SAINIK SCHOOL AMBIKAPUR

WINTER VACATION HOMEWORK / ASSIGNMENT

CLASS 12

SER NO	SUBJECT	SUB TEACHER	HOMEWORK
1.	ENGLISH	Mr B K Pandey	
2.	MATHS	Mr MSN Raju, M. Raj Kumar	1. Activities from maths Lab manual (any 10 activities) 2. Miscellaneous Exercise problems from • Three Dimensional Geometry • Probability • AOD • Differential Equations
3.	SCIENCE		**Biology :** 1. Make a project work on the topic selected by you for submission for the CBSE examination. **Physics:** 1. Complete physics practical note book. 2. Prepare an investigatory project on any topic related to class XII. **Chemistry :** 1. Prepare chemistry file and practical copy for final practical exam and practice intext and exercise questions board exam.
4.	COM SCI (OLD – C++)	Mr Pradeep Dangre	(Computer Science – C++) 1. Solve CBSE 2020 Sample paper available in CBSE Academics. 2. Complete Practical Record file. 3. Make a Computer generated Project on given topics in groups for submission for CBSE Exam.