

**BANASTHALI PUBLIC SCHOOL**  
**SUMMER HOLIDAY HOMEWORK, SESSION 2022-23**

Circular No. BPS/22-23/31.10

**CLASS - X**

Dated:26-05-2022

HIKE MOUNTAINS, RUN THROUGH MEADOWS  
EXPLORE FORESTS, SWIM IN THE SEA  
CLIMB TREES, BREATHE THE WILD AIR  
GAZE AT THE STARS, IT IS SUMMER TIME!



**Dear Student,**

Holidays are the time to unwind and feed your creativity and imagination. It is a great opportunity to relax as well as fruitfully occupy yourself and keep your energies well directed. Now is the time to experience adventurous sports, indulge yourself in various recreational activities, visit your family and friends and rejuvenate yourself.

But it is equally important to temper your relaxed moments with constructive and creative work which your teachers have carefully planned for you through some thought – provoking holiday homework. You may complete them at your ease, but ensure that they are completed timely.

**GENERAL INSTRUCTIONS:**

1. Complete the work (C.W./H.W.) of all the subjects taught in the class, in the respective notebook and in Neat and Clean Handwriting, if still pending.
2. Holiday Homework will be part of Internal Assessment, so complete the entire work in beautiful and correct manner.
3. After summer vacation, students will be required to submit the Summer Holiday Homework Notebook/Scrapbook/Project file/Lab Manuals (which ever applicable) in the school for Internal Assessment.
4. Parents kindly make sure your ward completes all the work assigned. Work to be done on regular basis.
5. Revise UnitTest-1 syllabus.

**HAPPY HOLIDAYS**

**STAY SAFE, STAY HEALTHY!!**

Subject Names	Details
<b>English</b>	<p><b>Neatness and presentation are common parameters for the homework assigned. Kindly complete your homework with utmost dedication.</b></p> <ol style="list-style-type: none"> <li>1. Attempt Assignments (5-10) in Together with Pull-out worksheets.</li> <li>2. In your English Literature Textbook Footprints Without Feet- Read Chapter 4 and 6. Underline the difficult words in your textbook and find out the meanings of the same and write in the textbook with pencil.</li> <li>3. Watch English news daily to equip yourself with the information and facts to be used in content as writing skills. Enhance your speaking power.</li> <li>4. <b>Art Integrated Project</b>  <b>Topic- Advertising Ancient Times</b>            Designing an advertisement is a powerful tool which demands persuasive skills. Design an advertisement to attract tourist to one of the Heritage Sites to Sikkim. Collect the information about the Tourism Industry to Sikkim and write about its brief history along with pictures in a Project File.</li> </ol>
<b>Social Science</b>	<ol style="list-style-type: none"> <li>1. A Project file is to be prepare on any one of the following topics according to your Roll No. with a strict adherence to the following instructions:  <b>Topics: <u>Consumer Awareness (Roll No. 1-11) OR Social Issues (Roll No. 12-22) OR Sustainable Development (Roll No. 23-33)</u></b>  <b>Guidelines from the CBSE</b> <ul style="list-style-type: none"> <li>• The overall objective of the project work is to help students gain an insight and pragmatic understanding of the theme and see all the Social Science disciplines from interdisciplinary perspective.</li> <li>• It should also help in enhancing the Life Skills of the students. Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report. If required, students may go out for collecting data and use different primary and secondary resources to prepare the project. If possible, various forms of art may be integrated in the project work.</li> <li>• The distribution of marks over different aspects relating to Project Work is as follows:               <ol style="list-style-type: none"> <li>a. Content accuracy, originality and analysis (2)</li> <li>b. Presentation and creativity (1)</li> <li>c. Viva Voce (2)</li> </ol> </li> <li>• The Project Report should be handwritten by the students themselves.</li> </ul> </li> <li>2. Write a Nukkad Natak script on Gender Discrimination in Project Note Book.</li> <li>3. On the outline map of India mark the following dams and write the names of beneficiary states.            Salal dam, Hirakud dam, Sardar sarovar, Tehri dam, Bhakra dam</li> <li>4. Prepare Ch.1(History), Ch.1(Geography), Ch.1(Civics) and Ch.1(Economics) for Unit Test-1</li> </ol>
<b>Art &amp; Craft</b>	<ol style="list-style-type: none"> <li>1. Make a painting in modern art by using poster colour on A/3 size sheet.</li> <li>2. Make a hanging puppet using clothes or jute rope.</li> <li>3. Make a colourful face/hand by using cement in 3D effect.</li> </ol>
<b>Music</b>	Learn the following Prayer songs from your School diary: <b>1. हमको मन की शक्ति देना</b> <b>2. National Song 3. National Anthem. 4. 'Banasthali Song'.</b>
<b>Sanskrit</b>	<ol style="list-style-type: none"> <li>1. 'व्यंजन संधि' विषय पर परियोजना कार्य कीजिए (प्रोजेक्ट फाइल में)</li> <li>2. 'मम भारतः श्रेष्ठः भारतः' विषय पर एक अनुच्छेद लिखिए (प्रोजेक्ट फाइल में)</li> <li>3. 5 चित्रलेखन, 5 पत्रलेखन कीजिए (उत्तर पुस्तिका में)</li> <li>4. सचित्र 'स्वपरिचयः संस्कृत भाषा में' कीजिए (10 वाक्य) (प्रोजेक्ट फाइल में)</li> <li>5. 'महर्षि सुश्रुत' जीवन परिचय, आयुर्वेद में उनका योगदान विषय पर परियोजना कार्य कीजिए। (प्रोजेक्ट फाइल में)</li> <li>6. 5 सुभाषितानि श्लोक कलात्मक तरीके से A3 size sheet पर कीजिए।</li> </ol>

1. नेताजी सुभाषचन्द्र बोस के व्यक्तित्व एवं कृतित्व पर एक सचित्र परियोजना (प्रोजेक्ट) तैयार कीजिए। शब्द - सीमा लगभग 100
  2. बीरबल, तेनालीराम, गोपालभांड, मुल्ला नसीरुद्दीन में से अपने किसी मनपसंद चरित्र के कोई दो किस्से संकलित कर परियोजना कार्य की उत्तरपुस्तिका में लिखें। (सचित्र)
  3. i) विदेश यात्रा पर जाने वाले मित्र/सखी को शुभकामना संदेश लगभग 60 शब्दों में लिखिए।  
ii) जन्मदिन पर मित्र द्वारा भेजे गए उपहार के लिए धन्यवाद देते हुए लगभग 60 शब्दों में संदेश लिखिए।
  4. i) विभिन्न प्रतियोगी परीक्षाओं की कोचिंग के लिए दिल्ली के प्रशांत विहार में 'उज्वल भविष्य' नाम का कोचिंग संस्थान खुल रहा है। संस्थान की प्रमुख विशेषताएं बताते हुए एक विज्ञापन तैयार कीजिए।  
ii) पटेल नगर दिल्ली में 'योग दिवस' पर एक विशाल योग शिविर का आयोजन किया जा रहा है। योग शिविर की विशेषताओं का उल्लेख करते हुए लगभग 60 शब्दों का एक आकर्षक विज्ञापन तैयार कीजिए।
  5. व्याकरण पाठ - 1 (पृष्ठ 18) प्रश्न 2 पुस्तक में करें।
  6. इकाई परीक्षा 1 के लिए क्षितिज पाठ 1 व 10, कृतिका पाठ 1, व्याकरण पाठ 1, संदेश व विज्ञापन लेखन तैयार करें।
- सामान्य निर्देश : ( प्रश्न 1, 2 परियोजना कार्य की उत्तरपुस्तिका में करें। प्रश्न 3,4,5 ग्रीष्मावकाश गृहकार्य उत्तरपुस्तिका (कॉपी) में करें।  
दिया गया कार्य अंतर्मूल्यांकन हेतु अनिवार्य है।

1. Draw all the ray diagrams to show the images formed by both the lenses and mirror separately on A4 size sheets.
2. Make a project on effect of Climate change on digestion of food in terms of Delhi and Sikkim climate.
3. Make a **colourful** and labelled project/Model as per class, section, roll number and topics given below in your **scrapbook/scrap file/draw-sheets**.  
i. **Class X, section A, B and C → Roll number 1 to 11 →** Make a model that shows Reflection/Refraction of light.  
ii. **Class X, section A, B and C → Roll number 12 to 22 →** Make a working model of human heart.  
iii. **Class X, section A, B and C → Roll number 23 to 33 →** Make a colourful chart to show complete periodic table.
4. Make a flow chart on different types of Chemical reactions with examples in Chemistry notebook.
5. Compare refractive index of oil, water, glass and diamond in school register with the help of Ray formation.
6. Draw well labelled diagrams of the following in Biology Notebook.  
(a) Human respiratory system  
(b) Sectional view of human heart  
(c) Double circulation  
(d) Structure of nephron.

#### Lab Work

##### Physics

**Experiment 1:** To Determine the focal length of (i) Concave mirror and (ii) Convex lens by obtaining the image of a distant object.

##### Chemistry

**Experiment 1:** Performing and observing the following reactions and classifying them into: (i) Combination reaction (ii) Decomposition reaction  
(iii) Displacement reaction (iv) Double displacement reaction.

##### Biology

**Experiment 1:** Experimentally show that carbon dioxide is given out during respiration.

**Learn Ch. 1, 6 and 10 for Unit Test-I.**

1. Make a working model on one of the following Topics:
  - (i) To find the height of building by clinometer
  - (ii) Basic proportionality theorem
2. Do Activities numbers 2, 3 (all three cases) and 6 in lab manual.
3. Do the MANDALA ART in A-4 size sheet.

### Assignment

**Solve the following questions in the assignment register.**

- Q1.** If  $HCF(a,b) = 12$  &  $axb = 1800$ , then find  $LCM(a,b)$
- Q2.** Prove that  $\sqrt{11}$  is an irrational no. hence prove that  $7 + 3\sqrt{11}$  is also irrational.
- Q3.** The LCM of two nos. is thrice its HCF. The sum of LCM & HCF is 64. If one of the numbers is 48. Find other no.
- Q4.** A merchant has 120 litres of oil of one kind, 180 litres of another kind & 240 litres of third kind. He wants to sell the oil by filling the three kinds of oil in tins of equal capacity. What should be the greatest capacity of such a tin.
- Q5.** Find n if HCF of 85 & 153 is expressible in the form  $85n - 153$ .
- Q6.** Find LCM & HCF of 120 & 144 by using Fundamental theorem of Arithmetic.
- Q7.** Prove that  $\sqrt{5} + \frac{3}{\sqrt{5}}$  is irrational.
- Q8.** Without drawing the graph, find out whether the following system of linear equations has a unique solution or are parallel or coincident:
- (i)  $2x - 3y = 6$  and  $x + y = 1$     (ii)  $18x - 7y = 24$  and  $\frac{9}{5}x - \frac{7}{10}y = \frac{9}{10}$
- Q9.** Determine by drawing graphs, whether the following pair of linear equations has infinite number of solutions or unique solution or coincident lines:
- (i)  $y = 5$  ;  $y + 3 = 0$     (ii)  $3x + 4y = 12$  ;  $2x + 7y = 5$     (iii)  $3x - 2y = 12$  ;  $x - \frac{2}{3}y - 4 = 0$ .
- Q10.** (i) If  $\alpha$  and  $\beta$  are the two zeroes of the polynomial  $21x^2 - x - 2$ . Find the quadratic polynomial whose zeroes are  $2\alpha$  and  $2\beta$ .  
 (ii) If  $\alpha$  and  $\beta$  are the zeroes of the polynomial  $21x^2 - x - 2$  then find the value of  $\alpha^2 + \beta^2 + \alpha\beta$ .
- Q11.** For what value of k, the pair of linear equations  $2x + 7y = 5$ ,  $6x + ky = 15$  has no solution.
- Q12.** Find the value of 'k' for which the pair of linear equations has infinitely many solutions.
- (i)  $2x + 3y - 7 = 0$  and  $(k - 1)x + (k + 1)y = (3k - 1)$   
 (ii)  $3x + 4y + 2 = 0$  and  $9x + 12y + k = 0$
- Q13.** The taxi charges in a city consist of a fixed charge together with the charge for the distance covered. For a distance of 10 km, the charge paid is Rs. 105 and for a journey of 15 km, the charge paid is Rs. 155. What are the fixed charges and the charge per km? How much does a person have to pay for travelling a distance of 25 km?
- Q14.** The sum of the digits of a two-digit number is 9. Also, nine times this number is twice the number the number obtained by reversing the order of the digits. Find the number.
- Q15.** Meena went to a bank to withdraw Rs. 2000. She asked the cashier to give her Rs. 50 and Rs. 100 notes only. Meena got 25 notes in all. Find how many notes of Rs. 50 and Rs. 100 she received.

1. Read Ch.-1, 2 carefully and also write 10 new words from each chapter in computer notebook.
2. Make a project on Internet, Internet Terminology, Web Services and Services available on the internet with pictures in Project file.
3. To enhance the typing practice, type two pages of "The **quick brown fox jumps over the lazy dog**" in Microsoft Word and follow the given instructions. Take the printout and paste it in computer notebook. **Instructions:** Font name: Times New roman, Font size: 12, Line spacing: 1.0 and Use all ten fingers.

# **BANASTHALI PUBLIC SCHOOL**

**G-Block, Vikas Puri, New Delhi-110018**

**SESSION: 2022-23**

**CLASS: X**

**DATE: 26.05.2022**

## **SYLLABUS FOR UNIT TEST – 1**

<b>ENGLISH</b>	<b><u>ENGLISH READER:</u></b> <b><u>FIRST FLIGHT:</u></b> <b>Ch. 1:</b> A Letter to God <b>Ch. 2:</b> Nelson Mandela: Long Walk to Freedom <b>P-1:</b> Dust of Snow <b>P-2:</b> Fire and Ice <b><u>FOOTPRINTS WITHOUT FEET:</u></b> <b>Ch. 1:</b> A Triumph of Surgery <b><u>GRAMMAR AND COMPOSITION:</u></b> 1. Gap Filling 2. Rearrange the words <b><u>WRITING SKILLS:</u></b> 1. Enquiry Letter 2. Placing Order
<b>MATHEMATICS</b>	<b>Ch. 1:</b> Real Numbers <b>Ch. 2:</b> Polynomials <b>Ch. 3:</b> Pairs of Linear equation in two variable
<b>SCIENCE</b>	<b>Ch. 1:</b> Chemical Reaction and Equation <b>Ch. 6:</b> Life Processes <b>Ch. 10:</b> Light
<b>SOCIAL SCIENCE</b>	<b><u>HISTORY:</u></b> <b>Ch. 1:</b> The Rise of Nationalism in Europe <b><u>GEOGRAPHY:</u></b> <b>Ch. 1:</b> Resources and Development <b><u>CIVICS:</u></b> <b>Ch. 1:</b> Power Sharing <b><u>ECONOMICS:</u></b> <b>Ch. 1:</b> Development
<b>HINDI</b>	<b><u>पाठ्यपुस्तक:</u></b> <b>क्षितिज (गद्य) :</b> पाठ-1 <b>क्षितिज (काव्य) :</b> पाठ-10 <b>कृतिका:</b> पाठ-1 <b>व्याकरण:</b> पाठ-1 <b>लेखन:</b> 1. विज्ञापन और सन्देश लेखन 2. अपठित गद्यांश
<b>SANSKRIT</b>	<b>पाठ-1:</b> शुचिपर्यावरणम् <b>पाठ-2:</b> बुद्धिर्बलवती सदा <b><u>व्याकरण:</u></b> अपठित गद्यांश ,चित्रलेखन , घटिका , अनुवाद , व्यंजन संधि