

Modi Public School, Siliguri
Summer Holiday Assignment
Class 1

ENGLISH

- 1] Murarka Cursive Writing Page 6 to 20.
- 2] Make a card for your mother / brother / sister that says "I LOVE YOU".
Use sequins and glitters to make it beautiful.
- 3] Learn the poem "To Mother".

HINDI

10 pages सुलेखन (हिंदी सुलेखन)

Learn - बरखा रानी (उत्कर्ष)

Revise पाठ- 1,2 (उत्कर्ष)

BENGALI

হাতের লেখা বই (sheet nos. 7, 8 and 9)

NEPALI

नेपाली पढ र लेख पुस्तकमा 10 पाना लेख।

नेपाली खातामा 5-5 वटा फल र पशुको चित्र टाल अनि त्यसको नाम पनि लेख।

टालाटुली बटुली र बाल गीत कविता मुखस्त पार।

Modi Public School, Siliguri
Summer Holiday Assignment
Class 2

ENGLISH

- 1] Make an invitation card inviting your friends to your grandmother's birthday party.
- 2] Cursive Writing pg 11 to 20.
- 3] Learn the poem To Mother

HINDI

Project - सुबह के समय क्या-क्या दिखाई देता है, चित्र बनाएँ और रंग भरकर आवश्यकतानुसार सजाएँ। [Project A4 size के चार्ट पेपर पर बनाएँ]

10 pages सुलेखन (हिंदी सुलेखन)

BENGALI

হাতের লেখা বই (page no. 9 to 20)

NEPALI

हाम्रो साहित्य अभ्यासमाला पुस्तकमा पृष्ठ संख्या-9 र 10 गर।

हाम्रो साहित्य पुस्तकको पृष्ठ संख्या-10 को 2 र 3 खातामा गर।

MATHEMATICS

- 1] Pg 23 (Chapter Check-up) and pg no 41 (Mental Maths) in the book.
- 2] Worksheet given based on Even and Odd number and Ordinal numbers.
- 3] Learn multiplication tables from 2 to 5.

EVS

PROJECT WORK:

1. Paste the pictures of the internal organs (Heart, Lungs, Kidneys, and liver) in an A4 size paper.
2. Make a traffic light and mention the significance of the colours. To be done in A4 size paper.

Hodi Public School, Siliguri
Summer Holiday Assignment
Class 3

ENGLISH

- 1) Worksheet
- 2) Cursive Writing Book (Page 1 to 11)
- 3) Vocab Port (Page 1 to 6)

HINDI

Project – एक पूरे आकार के चार्ट पेपर पर राष्ट्रीय पक्षी मोर और राष्ट्रीय झंडे का चित्र बनाकर रंग भरें और सजाएँ।

BENGALI

২টি রচনা (জল, ধান) , বোধ পরীক্ষণ ।

NEPALI

हाम्रो नयाँ साहित्य पृष्ठ संख्या-14 को 6,7,8 र 9 खातामा गर।

आधुनिक नेपाली व्याकरण र रचना पुस्तकबाट पृष्ठ संख्या-8र10 पुस्तकमा नै गर्।

MATHEMATICS

- 1) Pg no 27 (Chapter Check-up) Question 1 to 6. And page no 30 (Mental Maths) in the book.
- 2) Use a square line paper by colouring it to show the patters for odd and even numbers. For reference see page no 23 of the Maths Text book.
- 3) Learn multiplication tables from 2 to 12.

EVS

PROJECT WORK:

1. Write in a half chart paper the Good Eating habits.

OR

Make a chart showing the various steps to wash the hands properly.

2. Make a dummy first-aid box with the necessary items like dettol, scissors, bandage, etc.

Hadi Public School, Siliguri
Summer Holiday Assignment
Class 4

SUGGESTED BOOKS FOR READING FOR BOOK REVIEW

ENGLISH :

Any **ONE** to be selected for **Summer Vacation & ONE** for **Puja Break**.

ENID BLYTON SERIES

- 1) SIX O' CLOCK TALES
- 2) THE MAGIC FARAWAY TREE
- 3) THE ENCHANTED WOOD
- 4) THE ADVENTURES OF THE WISHING CHAIR
- 5) THE RIDDLE OF THE HOLIDAY HOUSE
- 6) WELL DONE, SECRET SEVEN

Hindi :

मालगुडी डेज - आर के० नारायण

नमक का दरोगा - मुंशी प्रेमचंद

सबसे बड़ा सत्य - सुभाष कोमरु

जंगल बुक - रुडयार्ड किपलिंग

माँ की ममता - नर्मदा कोहली

BENGALI :

১। ক্ষীরের পুতুল – অবনীন্দ্রনাথ ঠাকুর

২। হযবরল – সুকুমার রায়

৩। টুনটুনির বই – উপেন্দ্রকিশোর রায় চৌধুরী

৪। ঠাকুরমার ঝুলি – দক্ষিণারঞ্জন মিত্রমজুমদার

NEPALI :

बुलबुल चरा र गुलाफको फूल - कन्हैया नासननी

चराको बुद्धि - राजनारायण प्राधान

मैले बिसन नसकेको साथी - रमेश श्रेष्ठ

SCIENCE :

A) Project on FOOD

1) Collect pictures of sources of the component given to you.

2) Mention the importance of the component.

Roll no. 1 to 7 - Carbohydrates

Roll no. 8 to 14 - Proteins

Roll no. 15 to 21 - Fats, symptoms and preventive measures.

Roll no. 22 to 28 - Vitamins

Roll no. 29 to 35 - Minerals

B) Collect information about any one of the diseases caused by mosquitoes. For example, malaria, dengue and chikungunya. Collect relevant pictures. Write about its causes, symptoms and its prevent measures.

SOCIAL STUDIES :

A) The Northern Mountains – Page 45 Exercises A, B, Page 46 Exercise C in the book

B) Project – Make different kinds of useful things from Paper.

You can make Envelopes, Files, Folders, Pen holders etc.

DATE OF SUBMISSION OF SUMMER ASSIGNMENTS – 27.6.17.

Hadi Public School, Siliguri
Summer Holiday Assignment
Class 5

SUGGESTED BOOKS FOR READING FOR BOOK REVIEW

ENGLISH :

Any **ONE** to be selected for **Summer Vacation & ONE** for **Puja Break**.

ENID BLYTON SERIES

- 1) SIX O' CLOCK TALES
- 2) THE MAGIC FARAWAY TREE
- 3) THE ENCHANTED WOOD
- 4) THE ADVENTURES OF THE WISHING CHAIR
- 5) THE RIDDLE OF THE HOLIDAY HOUSE
- 6) WELL DONE, SECRET SEVEN

Hindi :

SUGGESTED BOOKS FOR READING FOR BOOK REVIEW

मालगुडी डेज - आर के० नारायण

नमक का दरोगा - मुंशी प्रेमचंद

सबसे बड़ा सत्य - सुभाष कोमरु

जंगल बुक - रुडयार्ड किपलिंग

माँ की ममता - नर्मदा कोहली

BENGALI :

SUGGESTED BOOKS FOR READING FOR BOOK REVIEW

১। ক্ষীরের পুতুল – অবনীন্দ্রনাথ ঠাকুর

২। হযবরল – সুকুমার রায়

৩। টুনটুনির বই – উপেন্দ্রকিশোর রায় চৌধুরী

৪। ঠাকুরমার ঝুলি – দক্ষিণারঞ্জন মিত্রমজুমদার

NEPALI :

मैले बिर्सन नसकेको साथी - रमेश श्रेष्ठ

तोरीबारीको बुख्याचा - कन्हैया नासननी

भालु र दाउरे - राजनारायण प्रधान

कथाकुल भाग-1 - काशीराज सुवेदी

MATHEMATICS

TOPIC (Place Value)

PROJECT : Make a model of an Abacus according to Indian place value.

Material : Thermocol (thick), woollen knitting needle (no.2½ mm), 9 beads of 8 different colours

Do the Chapter Check-Up (page no - 23) in homework copy.

Do the Mental Maths (page no – 41) in book.

Learn multiplication table upto 15.

SCIENCE :

A] **Project on habitat :**

Forest habitat (roll no 1 – 7)

Desert habitat (roll no 8 - 14)

Water habitat (roll no 15 - 27)

Each group has to make a research report on the type of habitat given according to roll numbers.

Points to be covered are : Climatic conditions; Types of animals found; Types of plants found; Characteristic features of the animals found in the particular habitat.

B] **Research and find out the habitats** of extinct, endangered and threatened animals given below. Write a report about efforts to save one of these Animals from extinction.

Tigers (roll no. 1 - 7)

Pandas (roll no .8 - 14)

Rhinoceros (roll no. 15 – 21)

Elephants (22 - 27)

SOCIAL STUDIES :

You can select any one of the following topics. Do your work on a scrap book. Your work will be assessed on the basis of presentation, neatness and originality.

TOPIC 1 – **Who am I?**

First page : Your name; Age; Hobby; Dream; Likes and Dislikes;

Photographs of yourself and the house where you live in.

Following pages : Collect all the details of your family members – what do they do, their likes and dislikes. Members may include your grandparents, uncles and aunts and cousins. Paste their photographs.

TOPIC 2 – **Bridges which connect us.**

Gather information about the different types of bridges. Find out the materials which have been used to build them. You will be credited if pictures are hand drawn. Make a list of famous bridges of India. Mention their locations. Paste pictures.

DATE OF SUBMISSION OF SUMMER ASSIGNMENTS – 27.6.17.

Hadi Public School, Siliguri
Summer Holiday Assignment
Class 6

SUGGESTED BOOKS FOR READING FOR BOOK REVIEW

ENGLISH :

Any **ONE** to be selected for **Summer Vacation & ONE** for **Puja Break**.

- 1) THE SECRET OF THE OLD CLOCK (BY CAROLYN KEENE)
- 2) THE INDIAN IN THE CUPBOARD (BY LYNNE REID BAUKE)
- 3) CHARLOTTE'S WEB (BY E B WHITE)
- 4) THE ADVENTURE OF HUCKLEBERRY FINN (BY MARK TWAIN)
- 5) THE TIME MACHINE (BY H G WELLE)
- 6) SHIPWRECK (BY GORDON KORMON)

HINDI :

बड़े घर की बेटी - प्रेमचन्द ।

कलाकार - मन्नु भन्डारी ।

अन्धेर नगरी चौपट राजा - भारतेन्दु हरिश्चन्द्र ।

बात अठ्न्नी की - सुदर्शन ।

अहिंसा की विजय - हरिहरशरण उपाध्याय ।

BENGALI :

১। আম আঁটির ভেঁপু – বিভূতিভূষণ বন্দ্যোপাধ্যায়

২। সোনার কেছা – সত্যজিৎ রায়

৩। গুপের গুপুখাতা – লীলা মজুমদার

৪। গৌঁসাই বাগানের ভূত – শীর্ষেন্দু মুখোপাধ্যায়

NEPALI :

कथाकुल भाग - 2 (एकता बुक हाउस)

हिमपारी बाल उपन्यास (एकता बुक हाउस)

चन्द्रमामा खरायो (साझा प्रकाशन)

यति अन्तरिक्ष र गाउँघरका कथा - विजय चालिसे (साझा प्रकाशन)

सृष्टिको पुराण - डा. कविताराम श्रेष्ठ (साझा प्रकाशन)

MATHEMATICS

TOPIC (Whole Number and Knowing our Number)

- 1] To find the LCM of (i) 4 and 14 (ii) 4 ,6 and 12 by using number grids on chart paper.
- 2] To make the different models of Tangrams with the help of chart paper.

3] To find the primes numbers from 1 to 100 without checking by the method called the Sieve of Eratosthenes on chart paper.

4] To make different 3-d shapes like cylinder, cone, pyramid, cuboid, cone etc. with the help of chart paper.

5] The number of sheets of paper available for making notebooks is 25,000. Each sheet makes 12 pages of a notebook. Each notebook contains 300 pages. How many notebooks can be made from the paper available?

6] Find using distributive property: a. 69×101 b. 87×99

7] A box contains 5,00,000 medicine tablets each weighing 50 mg. What is the total weight of all the tablets in the box in grams and in kilograms?

8] Read these numbers. (i) 527864 (ii) 95432 (iii) 18950049 (iv) 70002509

(a) Write these numbers using placement boxes and then using commas in Indian as well as International System of Numeration.

(b) Arrange these in ascending and descending order.

9] Make the greatest and the smallest 4-digit numbers using any four different digits with conditions as given.

(a) Digit 9 is always at ones place

(b) Digit 7 is always at tens place

(c) Digit 3 is always at hundreds place (d) Digit 2 is always at thousands place.

10] The school canteen charges Rs 20 for lunch and ₹ 4 for milk for each day. How much money do you spend in 5 days on these things?

SCIENCE :

General Instructions:

Submit your work in a stick file. Write your name, class, sec, roll no and subject on the front page of the stick file

1) Make yarn from cotton fibre atleast 45 cm. long and stick it in A4 size paper and insert it in the stick file.

2) Make a model of weaving with two different colour paper. If possible insert it in your stick file.

SOCIAL SCIENCE :

HISTORY

PROJECT 1 Roll No. 1 to 9 : Make a project on various festivals celebrated in India.

PROJECT 2 Roll No. 10 to 18 : Make a project on different religions practiced in India.

PROJECT 3 Roll No. 19 to 26 : Make a project on five different languages spoken by the people of India.

DATE OF SUBMISSION OF SUMMER ASSIGNMENTS – 27.6.17.

Modi Public School, Siliguri
Summer Holiday Assignment
Class 7

SUGGESTED BOOKS FOR READING FOR BOOK REVIEW

ENGLISH :

☞ Any **ONE** to be selected for **Summer Vacation & ONE** for **Puja Break**.

- 1) THE SECRET OF THE OLD CLOCK (BY CAROLYN KEENE)
- 2) THE INDIAN IN THE CUPBOARD (BY LYNNE REID BAUKE)
- 3) CHARLOTTE'S WEB (BY E B WHITE)
- 4) THE ADVENTURE OF HUCKLEBERRY FINN (BY MARK TWAIN)
- 5) THE TIME MACHINE (BY H G WELLS)
- 6) SHIPWRECK (BY GORDON KORMON)

HINDI :

बड़े घर की बेटी - प्रेमचन्द ।

कलाकार - मन्मथ भण्डारी ।

अन्धेर नगरी चौपट राजा - भारतेन्दु हरिश्चन्द्र ।

बात अहली की - सुदर्शन ।

अहिंसा की विजय - हरिहरशरण उपाध्याय ।

BENGALI :

১। আম আঁটির ভেঁপু – বিভূতিভূষণ বন্দ্যোপাধ্যায়

২। সোনার কেলা – সত্যজিৎ রায়

৩। গুপের গুপুখাতা – লীলা মজুমদার

৪। গৌঁসাই বাগানের ভূত – শীর্ষেন্দু মুখোপাধ্যায়

NEPALI :

हिउँदे छुट्टी (बालकथा सङ्ग्रह) - (एकता बुक हाउस)

अनौठो देशमा एलिसा (एकता बुक हाउस)

मायाका फूलहरू (एकता बुक हाउस)

यति अन्तरिक्ष र गाउँघरका कथा - विजय चालिसे (साझा प्रकाशन)

MATHEMATICS

TOPIC (Integers and Fractions)

- 1] PROJECT : Properties of Addition and subtraction of Integers(on chart paper).(Roll no: 1 - 13)
- 2] PROJECT : Properties of Multiplication of Integers (on chart paper) (Roll no: 14 - 26)
- 3] Write a pair of integers whose (a) sum is (-18) (b) difference is (-15)
- 4] Find $(-25) \times (-32)$ using distributive property.
- 5] Verify that $a \div (b+c) \neq (a \div b) + (a \div c)$, for $a = (-20)$, $b = 2$, $c = 2$
- 6] An elevator descends into a mine shaft at the rate of 6 metre per minute. What will be its position after one hour?
- 7] In a class test containing 10 questions, 5 marks are awarded for every correct answer and 1 mark is deducted for each incorrect answer. Sita answers 5 correct and 5 incorrect questions and Gita answers 3 correct and 4 incorrect questions. Find their score.
- 8] Arrange the following in descending order : $\frac{1}{2}$, $\frac{5}{6}$, $\frac{11}{12}$
- 9] Solve : $(\frac{6}{5} \div \frac{3}{5}) + (3\frac{1}{2} \div 4\frac{2}{3})$
- 10] Which is greater : $\frac{1}{4}$ of $\frac{1}{7}$ or $\frac{4}{7}$ of $\frac{3}{5}$
- 11] The cost of $6\frac{1}{4}$ kg of apples is ₹ 245. What is the cost of 1 kg apple?

SCIENCE :

Project I to be done by Roll No.'s : 1-6

Topic - **Acid and base.**

Write your observation in A4 size paper and submit in a stick file.

- a).Prepare a card using the knowledge of indicator with the help of turmeric and soap solution. Explain how it works.
- b).Using the knowledge of acids and bases write a secret message with the help of baking soda and beet root. Explain how it works.

OR

Prepare red cabbage juice by boiling a piece of red cabbage in water. Use it as an indicator and test 3 different type of acidic and basic solutions with it. Preserve your Observations in the form of a table.

Project II to be done by Roll No.'s : 7-12

Topic - **Clock**

Make a model of a sand clock which can measure a time interval of 2 minute.

OR

Make a model of a water clock which can measure a time interval of 5 minute.

Project III to be done by Roll No.'s : 13-18

Topic - **Teeth**

Make a model on different type of teeth

Project IV to be done by Roll No.'s : 19 onward

Draw human respiratory system and try to make it more attractive by using cotton.

SOCIAL SCIENCE :

HISTORY

Project Topic - **Rulers and Buildings**

Introduction - Between 8th and 18th centuries kings and their structures.

Different types of structure (temple at least 1, mosque 1, church 1)

Different Monuments at least 5 (in which year was it built, under which ruler and dynasties, what was its importance)

DATE OF SUBMISSION OF SUMMER ASSIGNMENTS – 27.6.17.

Modi Public School, Siliguri
Summer Holiday Assignment
Class 8

SUGGESTED BOOKS FOR READING FOR BOOK REVIEW

ENGLISH :

Any **ONE** to be selected for **Summer Vacation & ONE** for **Puja Break**.

- 1) DIARY OF A YOUNG GIRL. (BY ANNE FRANK)
- 2) DAVID COPPERFIELD (BY CHARLES DICKENS)
- 3) THE TEMPEST (BY WILLIAM SHAKESPEARE)
- 4) I KNOW WHY THE CAGED BIRD SINGS (BY MAYA ANGELOU)
- 5) LONG WALK TO FREEDOM (BY NELSON MANDELA)
- 6) CHILDHOOD'S END (BY ARTHUR C CLARKE)

HINDI :

पन्च परमेश्वर - प्रेमचन्द ।

आपका बन्टी - मन्नू भन्डारी ।

अन्धा युग - धर्मवीर भारती ।

गिल्लू - महादेवी वर्मा ।

और कितने पाकिस्तान - कमलेश्वर ।

BENGALI :

১. ক্ষীরের পুতুল লেখকঃ- অবনীন্দ্রনাথ ঠাকুর
২. ঠাকুরমার ঝুলি লেখকঃ- দক্ষিণারঞ্জন মিত্র মজুমদার
৩. গোসাঁইবাগানের ভূত লেখকঃ- শীর্ষেন্দু মুখোপাধ্যায়
৪. দার্জিলিং জমজমাট (ফেলুদার গল্প) লেখকঃ- সত্যজিৎ রায়

NEPALI :

कथाकुल भाग - 3 (एकता बुक हाउस) - सार्तो श्रेणीको लागि

हिउँदे छुट्टी (बालकथा सङ्ग्रह) - (एकता बुक हाउस)

अनौठो देशमा एलिसा (एकता बुक हाउस)

मायाका फूलहरू (एकता बुक हाउस)

एशियाली लोककथा भाग - 3 (साझा प्रकाशन)

कथाकुल भाग - 4 (एकता बुक हाउस) - आठौं श्रेणीको निम्ति

MATHEMATICS

TOPIC (Linear equations in One Variable)

- 1] PROJECT : Make 4 3D models of regular polygon (use different colour art paper for each shape) (Roll no 1 - 18)
- 2] PROJECT : Verify the angle sum property by dividing polygons into triangles.(on chart paper) (Roll no 19-36)
- 3] Solve for x : (a) $\frac{2x-1}{2} - \frac{6x-2}{5} = \frac{1}{3}$ (b) $\frac{2x+1}{3x-2} = \frac{5}{9}$
(c) $\frac{3x+2}{4} - \frac{2x-3}{3} = \frac{4}{3} - x$ (d) $z - \frac{z+2}{3} = 1 - \frac{z+3}{4}$
(e) $0.60(3f-4) = 0.80(2f-5)$
- 4] The denominator of a rational number is greater than its numerator by 5. If numerator is doubled and the denominator is decreased by 2, then the rational number obtained is $\frac{4}{5}$. Find the rational number.
- 5] Two numbers are such that the ratio between them is 3:5. If each is increased by 10, the ratio between the new numbers so formed is 5:7. Find the original numbers.
- 6] The ages of Sonu and Monu are in the ratio 7:5. Ten years hence, the ratio of their ages will be 9:7. Find their present ages.
- 7] Sunil's age is four times his son's age. Five years ago, Sunil's age was seven times his son's age. Find their present ages.
- 8] The sum of the digits of a two-digit number is 7. When we interchange the digits, we find that the resulting new number is greater than the original number by 9. What is the two-digit number?
- 9] Lakshmi is a cashier in a bank. She has currency notes of denominations 10, 20 and 5 respectively. The ratio of the number of these notes is 4:7:4. The total cash with Lakshmi is ₹ 200. How many notes of each denomination does she have?
- 10] The perimeter of the floor of a room is 500 m. Its length is 10 m more than thrice its breadth. Calculate the length and breadth of the room.
- 11] One-third of a herd of animals are grazing in the forest and two-fifths of the remaining are resting nearby a pond. The remaining six are drinking water from the pond. Find the number of animals in the herd.

SCIENCE :

Project on Stars and the Solar System.

Topic to be covered:

- 1] Celestial object
- 2] Night sky
- 3] Moon and its phases, Surface of the moon, Stars, Light year, pole stars, group stars.
- 4] Major solar system (including sun, planets, asteroids, comets, meteors, artificial satellites).

SOCIAL SCIENCE :

HISTORY : The Indian Constitution and Its Features.

Acknowledgement.

Index.

Introduction – What is meant by constitution and its purpose?

Chapter 1 – Indian Constitution [mention about Constituent Assembly; its important members; start of work of the Constituent Assembly; last meeting of the Constituent Assembly; date of adoption of Indian Constitution].

Features of Indian Constitution :

Chapter 2 – Federalism.

Chapter 3 – Parliamentary form of Government.

Chapter 4 – Separation of Powers.

Chapter 5 – Fundamental Rights.

Chapter 6 – Secularism.

Conclusion.

Bibliography.

Hadi Public School, Siliguri
Summer Holiday Assignment
Class 9

SUGGESTED BOOKS FOR READING FOR BOOK REVIEW

ENGLISH :

Any **ONE** to be selected for **Summer Vacation** & **ONE** for **Puja Break**.

- 1) DIARY OF A YOUNG GIRL. (BY ANNE FRANK)
- 2) DAVID COPPERFIELD (BY CHARLES DICKENS)
- 3) THE TEMPEST (BY WILLIAM SHAKESPEARE)
- 4) I KNOW WHY THE CAGED BIRD SINGS (BY MAYA ANGELOU)
- 5) LONG WALK TO FREEDOM (BY NELSON MANDELA)
- 6) CHILDHOOD'S END (BY ARTHUR C CLARKE)

HINDI :

पन्च परमेश्वर - प्रेमचन्द ।

आपका बन्टी - मन्नु भन्डारी ।

अन्धा युग - धर्मवीर भारती ।

गिल्लू - महादेवी वर्मा ।

और कितने पाकिस्तान - कमलेश्वर ।

BENGALI :

১. ক্ষীরের পুতুল লেখকঃ- অবনীন্দ্রনাথ ঠাকুর

২. ঠাকুরমার ঝুলি লেখকঃ- দক্ষিণারঞ্জন মিত্র মজুমদার

৩. গোসাঁইবাগানের ভূত লেখকঃ- শীর্ষেন্দু মুখোপাধ্যায়

৪. দার্জিলিং জমজমাট (ফেলুদার গল্প) লেখকঃ- সত্যজিৎ রায়

NEPALI :

कथा नवरत्न - रुपनारायण सिंह (लेखक)

कथा कुसुम - सूर्यविक्रम जवाली (सम्पादक)

नेपाली दन्त्यकथा - साझा प्रकाशन

नासो - गुरुप्रसाद मैनाली (साझा प्रकाशन)

MATHEMATICS

TOPIC (Polynomial and Real number)

1] PROJECT : (Constructing the 'square root spiral') on chart paper.

2] Simplify: $3\sqrt{45} - \sqrt{125} + \sqrt{200} - \sqrt{50}$

3] If $\frac{\sqrt{2} - 1}{\sqrt{2} + 1} = a + b\sqrt{2}$ then find value of a and b.

4] Simplify $\frac{\sqrt{6}}{\sqrt{2} + \sqrt{3}} + \frac{3}{\sqrt{6} + \sqrt{3}} - \frac{4\sqrt{3}}{\sqrt{6} + \sqrt{2}}$

5] Calculate $(997)^2$ using algebraic identities.

6] Expand (i) $(4a + 5b)^3$ (ii) $(5x - 3y)^3$

7] Factorize the following expression

(i) $x^3 + 64$

(ii) $27x^3 + 125y^3$

(iii) $8a^3 - 27b^3$

(iv) $1 - 64a^3$

8] For what value of 'k' is the polynomial $p(x) = 2x^3 - kx^2 + 3x + 10$ exactly divisible by $(x+2)$.

9] Find the remainder when $f(x) = 12x^3 - 13x^2 - 5x + 7$ is divided by $(3x + 2)$.

10] Find the zeros of the polynomials $x^2 - 4x - 21$.

SCIENCE :

GENERAL INSTRUCTION

Project

Project I to be done by Roll No.'s : 1 - 9

Make model on three states of matter (solid, liquid, gas).

Project II to be done by Roll No.'s : 10 - 18

Centrifugation:

Collect information regarding centrifugation -

a). What is centrifugation?

b). Which type of substances are separated by this process?

c). It works on what principle? How it separate different component of mixture?

d). Application

paste related picture. Submit all the information in a stick file.

Project III to be done by Roll No.'s : 19 - 27

Make a model of plant cell

Project IV to be done by Roll No.'s : 28 onward

Make a model of animal cell

Assignment : To be done in A4 size paper and submit in a stick file and is compulsory for all the students. Write your name, roll no and class in the front page of your stick file.

Q1) Name the phenomenon by which raisins placed in water swell up.

Q2) What is cytosol?

Q3) Why does the skin of your fingers shrink when you wash clothes for a long time?

Q4) Why is endocytosis found in animals only?

Q5) Draw a labelled diagram of nucleus and label its parts. What is the function of chromatin fibre?

Q6) Draw a labelled diagram of mitochondria and label its parts.

Q7) What is the basis of long life of pickles and jams? What lesson one gets from this fact?

SOCIAL SCIENCE :

GEOGRAPHY

As students of social science and conscious citizens, doing 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 disaster but also to learn the essentials of disaster preparedness and ways to collect relevant information pertaining to disasters and its effective dissemination.

ROLL NO 1 - 18 - Make a project on **Earthquake prone areas of India.**

1. Seismic zones
2. Causes of earthquake
3. Impact on life and property
4. Mitigation strategies used to reduce the impact in earthquake prone areas.

ROLL NO 19 - 36 - Collect information on **Areas prone to cyclone in India.**

1. Warning system
2. Effects of cyclones on life and property.
3. Cyclone affected areas. Use outline map of India for identification.
4. Mitigation strategies to be used with construction of buildings.

Guidelines for the projects.

1. Project to be done on white A-4 size sheets. Submit in a strip file.
2. Project should be hand written of about 15 pages.
3. On the first page following information to be given – Name, Class, Roll No, Topic.

4. Content

5. Newspaper cuttings, maps, diagrams, illustrations are a must.

6. Project should be strictly based on India.

7. Use your Disaster Management book for reference.

8. Your work will be assessed on the basis of concept clarity, neatness and presentation.

DATE OF SUBMISSION OF SUMMER ASSIGNMENTS – 27.6.17.

Hadi Public School, Siliguri
Summer Holiday Assignment
Class 10

SUGGESTED BOOKS FOR READING FOR BOOK REVIEW

ENGLISH :

Any **ONE** to be selected for **Summer Vacation & ONE** for **Puja Break**.

- 1) DIARY OF A YOUNG GIRL. (ANNE FRANK)
- 2) DAVID COPPERFIELD (CHARLES DICKENS)
- 3) THE TEMPEST (WILLIAM SHAKESPEARE)
- 4) I KNOW WHY THE CAGED BIRD SINGS (MAYA ANGELOU)
- 5) LONG WALK TO FREEDOM (NELSON MANDELA)
- 6) CHILDHOOD'S END (ARTHUR C CLARKE)

HINDI :

पन्च परमेश्वर - प्रेमचन्द ।

आपका बन्टी - मन्नु भन्डारी ।

अन्धा युग - धर्मवीर भारती ।

गिल्लू - महादेवी वर्मा ।

और कितने पाकिस्तान - कमलेश्वर ।

BENGALI :

১. ক্ষীরের পুতুল লেখকঃ- অবনীন্দ্রনাথ ঠাকুর
২. ঠাকুরমার ঝুলি লেখকঃ- দক্ষিণারঞ্জন মিত্র মজুমদার
৩. গোসাঁইবাগানের ভূত লেখকঃ- শীর্ষেন্দু মুখোপাধ্যায়
৪. দার্জিলিং জমজমাট (ফেলুদার গল্প) লেখকঃ- সত্যজিৎ রায়

NEPALI :

कथा नवरत्न - रुपनारायण सिंह (लेखक)

कथा कुसुम - सूर्यविक्रम ज्ञवाली (सम्पादक)

नेपाली दन्त्यकथा - साझा प्रकाशन

नासो - गुरुप्रसाद मैनाली (साझा प्रकाशन)

नेपाली कथा (भाग -1) - नरहरि आचार्य, महादेव अवस्थी (सम्पादक) - साझा प्रकाशन

MATHEMATICS

TOPIC (Trigonometry and Real number)

- 1] PROJECT: (derivation of all trigonometry formulas) on chart paper.
- 2] Given that $16 \cot A = 12$, find the value of $\frac{\sin A + \cos A}{\sin A - \cos A}$.
- 3] Simplify : $\tan^2 60^\circ + 4 \cos^2 45^\circ + 3 (\sec^2 30^\circ + \cos^2 90^\circ)$
- 4] Evaluate : $2 \left(\frac{\cos 58^\circ}{\sin 32^\circ} \right) - \sqrt{3} \left(\frac{\cos 38^\circ \operatorname{cosec} 52^\circ}{\tan 15^\circ \tan 60^\circ \tan 75^\circ} \right)$
- 5] Find HCF of 56, 96 and 324 by Euclid's algorithm.
- 6] Given that $\text{HCF}(135, 225) = 45$. Find $\text{LCM}(135, 225)$.
- 7] Show that the square of any positive integer is either of the form $3m$ or $3m + 1$ for some integer m .
- 8] Prove that $\sqrt{\frac{\sec \theta - 1}{\sec \theta + 1}} + \sqrt{\frac{\sec \theta + 1}{\sec \theta - 1}} = 2 \operatorname{cosec} \theta$
- 9] If $\sin 2\theta = \cos(\theta - 36^\circ)$, 2θ and $\theta - 36^\circ$ are acute angles then find the value of θ .
- 10] Prove that $\sqrt{7}$ is an irrational number by contradiction method.

SCIENCE :

GENERAL INSTRUCTION

Assignment to be done in A4 size paper and presented in 2 separate stick file 1 for biology, 1 for Physics-Chemistry.

Projects to be done on chart paper.

Assignment (Physics & Chemistry)

Q1. Translate the following statements into chemical equations and then balance them.

- (a). Hydrogen gas combines with nitrogen to form ammonia.
- (b). Hydrogen sulphide gas burns in air to give water and sulphur dioxide.
- (c). Barium chloride reacts with aluminium sulphate to give aluminium chloride under precipitate of barium sulphate.
- (d). Potassium metal reacts with water to give potassium hydroxide and hydrogen gas.

Q2. Write the balanced chemical equation for the following and identify the type of reaction in each case.

- a) Potassium Bromide + Barium Iodine \rightarrow Potassium Iodine + Barium Bromide
- b) Zinc Carbonate \rightarrow Zinc Oxide + Carbon Dioxide
- c) Hydrogen + Chloride \rightarrow Hydrogen Chloride
- d) Magnesium + Hydrochloric acid \rightarrow Magnesium Chloride + Hydrogen

Q3. Why are decomposition reactions called the opposite of combination reaction? Write equation for this reaction.

Q4. Why do we apply paint on Iron articles?

Q5. Explain the following terms with one example each:

- a) Corrosion; b) Rancidity

Q6. An electric lamp of 100 Ω , a toaster of resistance 50 Ω and a water filter of resistance 500 Ω are connected in parallel to a 220V source. What is the resistance of an electric iron connected to the same source that takes as much current as all three appliances and what is the current through it?

Q7. How can three resistors of resistance 2 Ω , 3 Ω and 6 Ω be connected to give a total resistance of

- a) 4 Ω ; b) 1 Ω

Q8. What is (a) the highest (b) the lowest total resistance that can be secured by combinations of four coils of resistance 4 Ω , 8 Ω , 12 Ω and 24 Ω ?

Q9. An electric motor takes 5A from a 220V line. Determine the power of the motor and the energy consumed in two hours >

Q10. Explain the following:-

- a) Why is tungsten used almost exclusively for filament of electric lamps?
b) Why are the conductors of electric heating devices, such as toasters and electric irons, made of an alloy rather than a pure metal?
c) Why is the series arrangement not used for domestic circuits?
d) How does the resistance of wire vary with its area cross- section?
e) Why are copper and aluminium wires usually employed for electricity transmission?

Assignment (Biology)

Q1) What are the different ways in which glucose is oxidised to provide energy?

Q2) How are lungs designed in human beings to maximise the area for exchange of gases?

Q3) What are the components of the transport system in human beings? What are the functions of these components?

Q4) Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds?

Q5) Describe the structure and functioning of nephrons with a labelled diagram.

Q6) Describe double circulation in human beings, Why is it necessary?

Q7) Describe the flow of blood through the heart of human beings with a labelled diagram.

PROJECT

Project I to be done by Roll No.'s : 1 - 4

Write any 20 newly introduced physical quantity in your science text book and write its CGS and SI unit.

Project II to be done by Roll No.'s : 5 - 8

Write the valence table from class IX text book. And show how we can write chemical formula of compounds with the knowledge of valence table.

Project III to be done by Roll No.'s : 9 - 12

Derive the total resistance for series arrangement of 3 resistances R1, R2 and R3.

Project IV to be done by Roll No.'s : 13 - 16

Explain combination reaction, decomposition reaction, displacement reaction and double displacement reaction with the help to example (2 examples each)

Project V to be done by Roll No.'s : 17 - 20

Derive The total resistance for parallel arrangement of 3 resistance R1, R2 and R3.

Project VI to be done by Roll No.'s : 21 - 24

Explain with diagram how resistance depend upon the length, cross sectional area and material of the wire.

Project VII to be done by Roll No.'s : 25 onwards

Ohm's law with diagram and mathematical explanation.

SOCIAL SCIENCE : Popular Struggles & Movements in Nepal & Bolivia

Introduction – The factors that led to the start of movements in the two countries.

The forces that mobilised the people.

The pressure groups that played an important role in the movements.

Conclusion – the effect of the popular movements.

Use internet to collect information as well as pictures.

Assignment to be done in A4 size paper and presented in stick file.

DATE OF SUBMISSION OF ASSIGNMENTS – 27.6.17.