



**BALWANTRAY MEHTA VIDYA BHAWAN ASMA
GREATER KAILASH -II NEW DELHI**

CLASS VII SUMMER HOLIDAYS HOMEWOK 2020-2021

SCIENCE

Instuctions:

- Science holiday homework is divided into three sections:
- Section A- STEM project on any one topic
- Section B- Power point presentation
- Section C- Science worksheet

Section A

Make STEM Project on any of the following topics:

Students have to make the project from the following options and write materials required and the steps undertaken on A-4 size sheet and paste it in the science portfolio.

- I. Build a Planting Machine
- II. Innovative robot car
- III. Human Digestive system(working)
- IV. Convection current
- V. Life cycle of silk moth

Students can take help from the following links:

<https://www.youtube.com/watch?v=upZDD3edXHc>

<https://www.youtube.com/watch?v=Ruo1hyQInXo>

<https://www.youtube.com/watch?v=ZIMnZwR4aWE>

https://www.youtube.com/watch?v=vhlOn_pStYg

Section B

Make power point presentation (10-12 slides) on the following topics:

(Students have to include following slides: Topic, Introduction, Explanation, bibliography and conclusion)

- a. Chemical changes (roll no. 1 to 10)
 - b. Indicators (roll no. 11 to 20)
 - c. Adaptation of tropical rainforest animals (roll no. 21 to 30)
 - d. Formation of soil (roll no. 31 onwards)
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Section C

Students have to solve the following revision worksheet in A-4 size sheets or a copy

Q1. The main function of a leaf is:

- a) To prepare food
- b) To prevent disease
- c) To support the plant
- d) To give a proper shape

Q2. The plant which traps insect and feeds on insect is:

- a) Cuscuta
- b) China rose
- c) Pitcher plant
- d) Rose

Q3. Rhizobium is an example of:

- a) Symbiosis
- b) Insectivorous
- c) Parasitic
- d) Saprotrophic

Q4. The pointed teeth in buccal cavity is called:

- a) Incisors
- b) Canines
- c) Molars
- d) Premolars

Q5. The walls of large intestine absorb:

- a) Protein
- b) Water
- c) Fat
- d) Carbohydrate

Q6. Plant fibres are made of:

- a) Protein
- b) Nylon
- c) Rayon
- d) Cellulose

Q7. Which country is the largest producer of silk:

- a) India
- b) China
- c) Japan
- d) Bangladesh

Q8. The form of energy that produces feeling of hotness is called as:

- a) Work
- b) Heat
- c) Energy
- d) none of the above

Q9. With increase in temperature, heat will be:

- a) increase
- b) constant
- c) decrease
- d) double

Q10. The process of transfer of heat in solids is called as:

- a) Convection
- b) Radiation

- c) Conduction
- d) none of the above

- Q11. Which part of Amoeba helps in capturing the food particles?
- Q12. Which organ is known as the food pipe?
- Q13. Write the function of the tongue?
- Q14. How does a saprophyte obtain nutrition?
- Q15. How would you test the presence of starch in leaves?
- Q16. How will you distinguish between natural silk & Artificial silk?
- Q17. Why shearing is done before winter season?
- Q18. Write down the precautions that should be kept in mind while using clinical thermometer and laboratory thermometer.
- Q19. Can laboratory thermometers be used by doctors in clinics? Why or why not?
- Q20. Why do metallic pans have plastic handles?

SOCIAL SCIENCE

1. HISTORY

- Collect pictures of architectural monuments built in the Medieval period and make a collage. Write five lines about each monument. (Any five monuments)
- Make your own manuscript.

Take leaves and quill pen for writing the manuscript. Also make a cover page of your manuscript and use a ribbon for tying it up.

Answer the following:

- a. How the earlier people wrote?
- b. What were the difficulties in writing?
- c. What were the difficulties storing the manuscripts.

2. CIVICS

- Collect information regarding programs by the government to ensure the equality in India For e.g: Gender equality and economic equality.
- Students will find out information on Civil Right Movement and compare it with any one case of Civil Right

3. GEOGRAPHY

- Write the factors responsible for global warming. Also mention the solution to prevent it (A4 Sheet)
OR
Compose a poem in Hindi or English where the earth tells its' aging due to Global Warming.
- Imagine an ideal environment where they would love to live and draw the picture of their ideal environment. Those who may not prefer to draw can prepare a write up or a poem on the theme.

SANSKRIT

कक्षा – सप्तमी

विषय – संस्कृत

ग्रीष्मावकाश गृहकार्य

- 1) 'प्रार्थना श्लोक' अनुवाद सहित लिखिए एवं कंठस्थ कीजिए ।
- 2) 'मम परिचयः' लिखकर संस्कृत में परिचय देने का अभ्यास कीजिए ।
- 3) 'पठ' (पठना) एवं 'गम' (जाना) धातु रूपों को लङ् लकार, लोट् लकार, विधि लिङ् लकार में लिखकर याद कीजिए ।
- 4) 'कवि' एवं 'मति' के शब्दरूपों को लिखकर याद कीजिए ।

ENGLISH



1. READING TIME

Read at least **three books** from the given reading list and prepare a book review on any one. The review will be later assessed in the class as your Speaking Skills Assessment for Term-1.

- ✓ Treasure Island- Robert Louis Stevenson
- ✓ A Christmas Carol- Charles Dickens
- ✓ Anne of Green Gables- Lucy Maud Montgomery
- ✓ I am Malala- Malala Yousafzai
- ✓ Boy- Roald Dahl

2. PHOTOSHOP- ENJOY CLICKING !



Click **three** interesting photographs and describe them in your own words.



3. JINGLE BELLS

Create a jingle to advertise your favourite sport. Be prepared to present it in the class once the school reopens.



4. TWO PICS ONE WORD

Find 5 words that can be used both as a noun and a verb. You can stick pictures too. Don't forget to frame sentences. Eg: She began to **laugh** and I realized that it was the loudest **laugh** I'd ever heard.



5. GETTING CANDID WITH PARENTS

Prepare at least 5-8 questions and interview your parents enquiring about their hobbies, childhood, dreams etc. Remember to pen down the interview on an A-4 Sized sheet.

6. QUARANTINE DIARY



Find out the meaning and origin of the word 'Quarantine'.

Write a composition in about **100-120 words** explaining how you spent your lockdown days.

IT (COMPUTER)

1. Complete your copy work till chapter 4, as discussed in online classes.
2. Make a project in Scratch OR Power point(10 slides) on the following topic :
"Impact of Lockdown on Environment".

HINDI

कक्षा - सातवीं

--- दिया गया सभी कार्य अपनी हिन्दी की कॉपी में कीजिए ।

प्रश्न-१ नैतिक मूल्य हमारे जीवन के अभिन्न अंग हैं । नीचे दिए गए लिंक को क्लिक करके कहानी देखिए तथा उसमें दी गई सीख को अपने जीवन में अपनाने का प्रयास कीजिए -

<https://www.youtube.com/watch?v=IUafH23k1PA&feature=youtu.be>

प्रश्न-२ कोविड-19 से बचने के लिए आपने किन - किन सावधानियों का ध्यान रखा उन्हें एक सुंदर विज्ञापन के रूप में प्रस्तुत कीजिए ।

प्रश्न-३ कराया गया सभी कार्य याद कीजिए ।

प्रश्न-४ प्रतिदिन समाचार - पत्र पढ़िए तथा किन्हीं दस शब्दों के अर्थ लिखकर उनका वाक्य में प्रयोग कीजिए ।

प्रश्न-५ दिए गए कार्यपत्रकों के प्रश्नों के उत्तर लिखिए -

वसंत (हम पंछी उन्मुक्त गगन के)

प्रश्न:-1 निम्नलिखित शब्दों के अर्थ लिखकर वाक्य बनाइए :-

- (क) उन्मुक्त -
- (ख) पुलकित -
- (ग) अरमान -
- (घ) विघ्न -

प्रश्न:-2 निम्नलिखित प्रश्नों के संक्षिप्त उत्तर लिखिए :-

(क) पक्षी कैसा जीवन जीना चाहते हैं ?

(ख) पक्षी अपनी गति और उड़ान कब भूल जाते हैं ?

(ग) पक्षी कैसा जल पीना चाहते हैं ?

(घ) पक्षी किससे होड़ लगाना चाहते हैं ?

(ङ) कविता की अंतिम पंक्तियों में पक्षियों ने मनुष्य से क्या अनुरोध किया है ?

वसंत (हिमालय की बेटियाँ)

प्रश्न:-1 निम्नलिखित गद्यांश को पढ़कर दिए गए प्रश्नों के उत्तर दीजिए :-

मैं हैरान था कि यही दुबली - पतली गंगा, यही यमुना, यही सतलुज समतल मैदानों में उतरकर विशाल कैसे हो जाती हैं ! इनका उछलना और कूदना, लगातार खिलखिलाकर हँसते जाना, इनकी यह भाव - भंगी, इनका यह उल्लास कहाँ गायब हो जाता है मैदान में जाकर ? किसी लड़की को जब मैं देखता हूँ, किसी कली पर जब मेरा ध्यान अटक जाता है, तब भी इतना कौतूहल और विस्मय नहीं होता, जितना कि इन बेटियों की बाललीला देखकर होता है ।

प्रश्न:- (क) लेखक क्यों हैरान थे ?

(ख) पहाड़ों तथा मैदानों में नदियों के स्वभाव में क्या अंतर होता है ?

(ग) नदियों का एक अलग रूप देखकर लेखक को क्या महसूस हुआ ?

प्रश्न:-2 निम्नलिखित प्रश्नों के संक्षिप्त उत्तर लिखिए :-

(क) हिमालय का दामाद किसे कहा गया है ?

(ख) काका कालेलकर ने नदियों को क्या कहा है ?

प्रश्न:-3 'नदियों की उपयोगिता' विषय पर अनुच्छेद लिखिए ।

MATHS

I. ASSIGNMENT

CHAPTER : DATA HANDLING

Q1. Define the terms-

a) data b) frequency of an observation c) mean of a data

d) median of a data e) mode of a data f) bar graph g) double bar graph

Q2. Prepare the frequency table and tally marks for the following data:

5,2,1,3,4,4,5,6,2,2,4,5,5,6,2,2,4,5,5,1.

Q3. Find the mean of first five natural numbers.

Q4. Find the mean of first four prime numbers.

Q5. The ages (in years) of 50 players of a school are given below:

Age (yr)	14	15	16	17	18
No. of players	15	14	10	8	3

Find the mean age.

Q6. The weights of 10 students (kg) are:

40,52,34,47,31,35,48,41,44,38,42

Find the median weight.

Q7. The ages (in years) of 11 cricket players are given below:

28,34,32,41,36,32,32,38,32,40,

31. Find the mode

of ages.

Q8. A coin is tossed 100 times and head is obtained 59 times. On tossing a coin at random, find the probability of getting:

A) A head B) A tail

Q9. Daily wages of 45 workers in a factory are given below:

Daily wages (in Rs.)	100	125	150	175	200
No. of workers	6	8	9	12	10

Find the median, mean and mode.

Q10. 14. A dice is thrown 200 times and the outcomes are noted as shown below:

Outcome	1	2	3	4	5	6
Frequency	21	30	42	38	29	40

When a dice is thrown at random, find the probability of getting:

a) 5 b)3 c) 4 or 6 d) 1

Q11. The distance covered by 10 athletes in 1 minute in a sprint race of 400 m is :

299,248,315,320,286,370,388,379,295,300.

a) What is the maximum distance covered in 1 minute?

b) What is the minimum distance covered in 1 minute?

c) What is the range of the data?

d) What is the mean of the data?

e) How many athletes have covered distance more than the mean distance?

Q12. Given below is the marks (M.M-100) obtained by Samaira (class VII) in First and Second Terminal Exam 2014. Represent it using a double bar graph.

Subject	English	Hindi	Maths	Science	SST	Sanskrit
1 st term	92	93	98	91	99	75
2 nd term	98	97	100	80	99	89

Q13. The following table show the no. of boys and girls who have participated in various events conducted by a Rotary club of a city. Draw a double bar graph to represent the given data using an appropriate scale:

Event	Dance	Drama	Sports	Rangoli	Singing
Boys	400	480	670	220	710
Girls	580	330	590	610	720

CHAPTER : FRACTIONS AND DECIMALS

Q1. Solve: i) $4 + 4.4 + 44.4 + 4.04 + 444$ ii) 9.5×100
iii) $734.7 \div 10000$ iv) $0.80 \div 5$

Q2. Evaluate:

- Express as rupees : 77 rupees 7 paise
- Write the decimal number in expanded form: 221.04
- 705mm = _____ cm
- 900g = _____ Kg

Q3. Which of the greater: 101.81 0R 101.180?

Q4. A rectangular whiteboard is 6.8m long and 5.2m wide. Find its perimeter and area.

Q5. Shyam bought 62Kg 300g apples and 41Kg 255g mangoes. Sarala bought 51Kg 900g oranges and 57Kg 750g bananas. Who bought more fruits? And by how much?

Q6. Which of the following is greater:

- 0.50 or 0.050
- 12kg or 1200g
- $\frac{1}{2}$ of $\frac{6}{7}$ or $\frac{2}{3}$ of $\frac{3}{7}$

Q7. Sugar is sold at Rs $17\frac{3}{4}$ per kg. Find the cost of $8\frac{1}{2}$ kg of a sugar.

Q8. A vehicle covers a distance of 43.2Km in 2.4 litres of petrol. How much distance will it travel in 1 litre of petrol?

Q9. Express 2750 paise as rupees in decimals.

Q10. The weight of 34 bags of sugar is 3483.3 kg. If all bags weigh equally, find the weight of each bag.

Q11. Solve: $(-18) \times (-15) \times (-40)$.

Q12. A bucket contains 24 litres of water. How many litre jugs can be filled from the bucket to get it emptied?

Q13. Evaluate the following: $(-62) \div [(-60) + (-2)]$

Q14. Shiksha cuts 50m of cloth into pieces of 1.25m each. How many pieces does she get?

Q15. Cost of $6\frac{1}{4}$ Kg of apples is Rs 400. At what rate per kg are the apples being sold?

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II. ASSIGNMENT FROM NCERT BOOK

CHAPTER	EXERCISE(Ex.) / OTHER TASKS
<u>FRACTIONS & DECIMALS</u>	<u>Ex 2.5:</u> Q1 (i),(ii), Q2(ii), Q3(ii), Q4, Q5 (ii),(iii)
	<u>Ex 2.6:</u> Q3(even parts), Q5(even parts)
	<u>Ex 2.7:</u> Q3, Q4, Q5 [even parts in all questions]
<u>FRACTIONS & DECIMALS</u>	<i>Do all the word problems(presentation) shared during online classes through whatsapp.</i>
<u>DATA HANDLING</u>	<u>Ex 3.2:</u> Q1, Q3, Q4
	<u>Ex 3.3:</u> Q4, Q5
	<u>Ex 3.4:</u> Q1

- ❖ Learn and write TABLES from 2-25. (Homework register)
- ❖ Learn and write the Squares from 1-20 (Homework register)
- ❖ Make a separate register (Revision test register), note down or paste (printout) the tests taken on zoom classes with your answers.

III. ACTIVITY / PROJECT :

- ❖ Do Activity-1(Basics and real life examples on probability),
Activity-2(Understanding and comparing fractions)
Activity-3(Use and tricks in Vedic math) (on activity file/register)
- ❖ Make a DIY model/toy using mathematical tools & geometric figures.
- ❖ Make a power point presentation on
Importance of mathematics in everyday life
OR
Contribution of Indian scholars in modern mathematics.

PHYSICAL EDUCATION

WORKSHEET

Soccer Rules

1. Each soccer team consists of a goalkeeper, _____
 - a. defenders, midfielders and centers.
 - b. defenders, centers and guards.
 - c. defenders, midfielders, and forwards.
 - d. defenders, forwards and centers.

2. In soccer, the game clock ticks even when the ball is out of play, during substitutions, and during free kicks.
 - a. True
 - b. False

3. A type of restart where a player throws the ball from behind their head with two hands while standing with both feet on the ground behind a sideline.
 - a. kick in
 - b. pass in
 - c. throw in
 - d. dribble in

4. When is a player offside?
 - a. When a player is behind defense on the opponents side and involved in the play
 - b. When a player is in front of defense on the opponents side and involved in the play
 - c. When a player is in behind the defense on their own half and not involved in the play
 - d. When a player is between two defenders from the other team and involved in the play

5. What happens when the ball goes out of bounds on the side lines?
 - a. throw-in
 - b. drop kick
 - c. keep playing
 - d. kick off

6. Slide tackling is permitted as long as the defender contacts the ball during the tackle.
 - a. True
 - b. False

7. Who is the only player on the field who can touch the ball with their hands during play?

- a. referee
- b. midfielder
- c. goalie
- d. coach

8. If a player intentionally handles the ball, the penalty awarded to the opponent is

- a. Indirect Free Kick
- b. Direct Free Kick
- c. Penalty Kick
- d. Throw- in

9. A(n) _____ is awarded the opposing team when a player last touches the ball over his own goal line

- a. goal kick
- b. corner kick
- c. direct free kick
- d. indirect free kick

10. A yellow card is given as a _____ to a player.

Q2. Write an Essay on how can we improve Sports in India (100 words)

Q3. Make 5 posters on Football Eg: (Field ,Rules & Equipments)



**STAY HOME
STAY SAFE
STAY PRODUCTIVE
STAY CONNECTED**