



## Datta Meghe World Academy

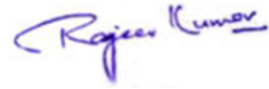
### Summer Vacation Holiday Homework (2023-2024)

Grade : VI

Theme - Facts

Sr.no.	Subject	What to do? (Topic )	How to do? (Details of activity)	Where to do? (e.g Chart paper, N.B etc)	Why to do? (Reflection)	Rubric / Criteria
1	English	Passage Writing: ' My Favorite Author'	Students will study about the author and make research about him/her in the following way : Date of birth and place; Education; His / Her Works; Awards and accolades/ achievements; the famous work and its appreciation	On Scrapbook , decorate it with your spontaneous creativity	Students will have the opportunity to explore everything for the person before validating him/ her for his showing his allegiance	Main idea, coherence; grammar; syntax
2	Mathematics	Students need to search facts about the types of numbers such as natural number, whole number, integers, prime, co-prime composite and twin prime numbers.	Can surf internet, refer text book V and VI (E.g. Natural number, whole number, integers, Prime, composite, co-prime and twin primes numbers with examples and definition with any interesting fact about it. Anything they know in extra can add with definition and examples)	Student can make a portfolio of few pages of plain A4 size paper or tinted paper and produce it with bold heading of the topic, Name, std, div and your summary/reflection about the topic.	This will not only rebrush their previous knowledge but also they shall be connected with the difference between the numbers as why they are called so?	Neatness, creativity, sequenciality, clarity.
3	Science	Sources of Food facts	Make a chart on the famous cuisines eaten by the people of Maharashtra and Sikkim. Stick relevant pictures too.	On a chart paper, full sized.	Students will be able to explore, relate and present about various food cuisines.	Neatness, Creativity, Organisation, presentation
4	Hindi	पाठ -1 अरुण यह मधुमय देश हमारा (भौगोलिक परिवेश की जानकारी ढूँढना)	महाराष्ट्र और सिक्किम प्रदेश 1. भाषा 2. सभ्यता और संस्कृति 3. वेशभूषा और रहन-सहन 4. राज्यमंत्री 5. खाद्य पदार्थ 6. त्योहार	cardboard, clay, waste materials, colours , sketch pens etc.	१ भौगोलिक परिवेश से परिचित होने के लिए। २ छात्रों के रचनात्मकता को बढ़ावा देने के लिए। ३ छात्रों के आर्ट कौशल को विकसित करने के लिए।	1.Content 2 Accuracy 3. Creativity 4. Neatness 5. Submission on time.
5	Marathi	कोणत्याही दोन भारतीय संशोधकाची माहिती मिळवून त्याबद्दल लिहा.	१) निवडलेल्या संशोधकांचा परिचय २) त्यांनी केलेले कार्य, आलेल्या अडचणी , पारितोषिके इत्यादी ३) संशोधनाचा झालेला उपयोग	Project Papers , colours , relevant pictures. (make a file )	विद्यार्थ्यांना भारतीय संशोधकांविषयी माहिती प्राप्त होईल , भारतात झालेल्या संशोधनाविषयी माहिती मिळेल.	1.Content 2 Accuracy 3. Creativity 4. Neatness 5. Submission on time.

6	Sanskrit	Facts of Sanskrit Alphabets	1) What are Sankrit letter called? 2) How old is Sanskrit alphabet ? 3) How many Sanskrit alphabets are there? 4)What are the vowels in Sanskrit? 5) What are the consonants in Sanskrit ? 6) Sanskrit alphabet chart ? 7) Why is Sanskrit so unique ? ( Dear Students, You can research with the help of the above questions. You can draw or paste images that are relevant to the research.)	Project Papers , colours , relevent pictures. (make a file )	Students will know that - 1) Indian languages use the Devanaagri Script viz Sanskrit, Hindi & Marathi. 2) Grammatical rules are quite different and unique in each language. 3) Pronunciation may also differ for some consonants across these languages.	1.Content 2 Accuracy 3. Creativity 4. Neatness 5. Submission on time.
7	Social Science	Facts on People lives in past 1. Where did people live in past 2. How people travel in past 3. What people ate in past 4. What clothes people wear in past 5. What occupation people had 6. What were the sources to find about pasts	1.Students will research or collect information from internet. 2. can make charts, models stick pictures	They will do this as a project on A4 size paper with creativity	Students will be able to analyze and compare the present life with the past It gives opportunity to explore facts about pasts	Creativity Organization Presentation of ideas and content Neatness



**Principal**



## Datta Meghe World Academy

### Summer Vacation Holiday Homework (2023-2024)

Grade : VII				Theme - Ancient times		
Sr.no.	Subject	What to do? (Topic )	How to do? (Details of activity)	Where to do? (e.g Chart paper, N	Why to do? (Reflection)	Rubric / Criteria
1	English	Sit & relax. It's been a long, that you had a quality time with your grandparents and parents. Prior decide your family's favourite snacks. While enjoying your favourite snacks. Discuss the life of your grandparents vs parents. You may put up the questions like-- Their routine vs life of your parents, earning sources, how they use to spend and save momey during those times, their education vs your parents education, struggles they had, education, competition they used to face and currently your parents are facing, challenges etc. You may include such more points are per your convenience and thinking ability.	You can write a paragraph in a form of an essay and stick pictures of your family with grandparents and parents enjoying life and happy moments.	Use a half sized chart paper to create a beautiful and a creative poster of such moment with your beloved family.	Understanding the lives of Golden-agers vs lives of your parents and connect and compare their lives generation-wise.	1.Coverage & Understanding of a topic 2. Originality 3. Creativity 4. Attractiveness 5. Clarity
2	Mathematics	Topic - History of Fractions and decimals	Need to compare the use of fractions and decimals in ancient times and present time . Collect all the information of it and along with that stick the relevant pictures related to the topic. Project should be presentable and unique. (You may refer ----- (1) <a href="https://nrich.maths.org/2515">https://nrich.maths.org/2515</a> (2) <a href="https://www.frontporchmath.com/wp-content/uploads/2016/09/fraction-history-2.pdf">https://www.frontporchmath.com/wp-content/uploads/2016/09/fraction-history-2.pdf</a> (3) <a href="https://mae.ufl.edu/~uhk/decimal-system.pdf">https://mae.ufl.edu/~uhk/decimal-system.pdf</a> (4) <a href="https://www.newworldencyclopedia.org/entry/Decimal">https://www.newworldencyclopedia.org/entry/Decimal</a>	Make a portfolio, A4 size paper, 3-4 pages. Stick alll relevant pictures giving information, should have mathematical connotation to your related description. Project to be done in a separate project file. Project file needs to have a cover, introduction, content and conclusion.	Students are able to connect with history of fractions and decimals with the present scenario	CRITERIA FOR EVALUATION: Creativeness, neatness, detailed information, presentable.
3	Science	Uses of plants in ancient time	Write about the types and uses of plants during ancient times and stick/draw the relevant pictures.Can search the information from Google.	A4 size colourful paper. Draw the page boarder and using the colourful pens/colors write the information in nice and readable handwriting along with the related picture/drawing supporting your information.	For analyzing and understanding the importance of plants and it's nutrition in human life from very beginning till date.	Content knowledge. Originality. Creative. Presentation & neatness. Evaluation.

4	Hindi	Ancient Life (प्राचीन जीवन )	प्राचीन जीवन के खिलौनों या गहनों को क्ले की सहायता से बनाइए। (Make toys or jewellerys of ancient civilization with the help of clay and waste materials)	Cardboard,clay,waste materials, colours ,sketch pens etc.	१ प्राचीन जनजीवन से परिचित होने के लिए । २ छात्रों के रचनात्मकता को बढ़ावा देने के लिए। ३ छात्रों के आर्ट कौशल को विकसित करने की लिए।	Creativity,Neatness, Presentation,Content, Submission
5	Marathi	प्राचीन काळातील वास्तू ( कोणत्याही ५)	प्राचीन काळातील वास्तू याबद्दल खालील मुद्द्यांच्या आधारे माहिती मिळवा २) वास्तू कोणी बांधली व का? ३) वास्तूचे असलेले ऐतिहासिक महत्व इत्यादी	Project Papers , colours , relevent pictures.( make a file )	प्राचीन भारतीय वास्तुकलेची विद्यार्थ्यांना माहिती व्हावी , वास्तूचे ऐतिहासिक महत्व विद्यार्थ्यांना समजावे	1.Content 2. Originality 3. Creativity 4. Detailing 5. Submission on time.
6	Sanskrit	Ancient Language (Sanskrit)	Write an article on ancient language Sanskrit. ( Dear Students,You can draw or paste images that are relevant to the article.)	Project Papers , colours , relevent pictures.( make a file )	To realize the importance of the Sanskrit language. 1) Sanskrit itself is an amazing language. Just by learning it, a child develops better linguistic capabilities. 2) Learning Sanskrit will assist in comprehending ancient Indian scriptures and texts. 3) Sanskrit language learning drives a wholesome cognitive development.	1.Content 2. Originality 3. Creativity 4. Detailing 5. Submission on time.
7	Social Science	Make a project on The Archoeological and Literary sources of the Medieval period.	Collect pictures of painting,coins and inscriptions and write a report on what information they provide us with about the medieval period.	On the project sheet and make a file of that .You can draw or paste images that are relevant to the given topic.)	1.Students will correlate the paintings and inscription used in the medieval period of time. 2.Students will able to collabarate their report writing while collecting information about the medieval period.	presentation,clarity, content, accuracy and Neatness,creativity( 2 marks of each)

*Rajeev Kumar*

Principal



# Datta Meghe World Academy

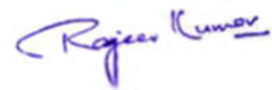
## Summer Vacation Holiday Homework (2023-2024)

Grade : VIII

Theme - Environment

Sr.no.	Subject	What to do? (Topic )	How to do? (Details of activity)	Where to do? (e.g Chart paper, N.B etc)	Why to do? (Reflection)	Rubric / Criteria
1	English	In Consideration of Ch-1 Partition. As we know/heard about the situation during those times the things were not that great. Many families got separated and had to face various challenges. Keeping such situation and environment in mind, where people somehow survived and re-located themselves.	Prepare a case study of one such family who was the sufferer and survival of such situation. You may include points like age, how they got lost, how many family members were lost, did they meet etc.	Use a half sized chart paper, prefer a light one, sharing story of one such family. Make it an attractive one with meaningful information. You can even stick relevant pictures to support your article. Follow the format given in the image, link-- <a href="https://images.app.goo.gl/zegfM9H6s74Y9M9J6">https://images.app.goo.gl/zegfM9H6s74Y9M9J6</a>	Students will reframe such environment and correlate such situation with pandemic. Where so many innocent lives were lost. There was a scarcity of daily human needs etc. Transportation was not so developed during those times and so on.	1. Coverage & Understanding of a topic 2. Originality 3. Creativity 4. Attractiveness 5. Clarity
2	Mathematics	Sub-topic: climate . 1. Select a city and collect the data of maximum and minimum temperatures recorded for the duration of the past 3 years during summer and winter.	Represent the collected data (seasonal variation in temperature) by using a Bar graph or Pictorial graph or Pie graph. . Interpret the graph drawn by you. (You may refer <a href="http://www.imd.gov.in">www.imd.gov.in</a> )	Project to be done in a separate project file. Project file needs to have a cover, introduction, content and conclusion.	students are able to connect with real life situations.	CRITERIA FOR EVALUATION: Content, Knowledge & Relevant Data, Presentation, Creativity, Explanation
3	Science	Various types of microorganisms in the environment	Make a model on any one microorganism, an example from the type given to you, and note down some salient features on the same which you will present in the class.	Model making and salient features on an A-4 sized paper.	Students will relate and illustrate about the microbial environment around them, and list down various features of each type of microbe.	Creativity, Research, Neatness, Presentation
4	Hindi	ग्लोबल वार्मिंग (जलवायु परिवर्तन )	प्राकृतिक संसाधन की देखभाल कैसे कर सकते हैं ?पोस्टर बनाइए।(Poster Making On Conservation Of Natural Resources)	chart papers, sketch pen, colours, paints, materials available at home.	१ प्राकृतिक संसाधन के संरक्षण के लिए। २ छात्रों के रचनात्मकता को बढ़ावा देने के लिए। ३ छात्रों के आर्ट कौशल को विकसित करने के लिए।	Creativity, Neatness, Presentation, Content, Submission
5	Marathi	पर्यावरण संरक्षण आणि संवर्धन यावर सुवाच्य अक्षरात घोषवाक्ये तयार करा	पाणी, पृथ्वी, ध्वनी प्रदूषण , वायू प्रदूषण, वृक्ष या विषयावर ५ घोषवाक्ये तयार करा. यासाठी आंतरजाल ( इंटरनेट) , पुस्तके याची मदत घेऊ	चार्ट पेपर , रंगीत स्केचपेन्स, रंग यांचा वापर करू शकता, चित्र काढू शकता	पर्यावरणाच्या संवर्धन आणि संरक्षण याविषयी जागरूकता निर्माण करण्यासाठी , घोषवाक्यांच्या मार्फत भाषा समृद्धी होण्यासाठी	Creativity, Neatness, Presentation, Content, Submission

6	Sanskrit	Natural resources	Slogan Writing on any one Natural resource in Sanskrit.	chart papers,sketch pen, colours, paints, materials available at home.	<a href="#">To make the students aware about importance of environment. To improve problem solving skill.</a>	Creativity,Neatness, Presentation,Content, Submission
7	Social Science	Non-Conventional sources of energy and how it is useful to environment. Supplement with pictures Make a list of different states of India where non conventional sources is utilized extensively.	Paste pictures of non conventional sources of energy, explain how it is generated and places where this resources are available. Examples- Tidal energy, Geothermal energy, Hydroelectricity, Wind energy, Solar energy, Nuclear energy	Portfolio (A4 Size project paper) use colour pens, sketch pens. Example- Students can make a model of dam, windmill etc.	To enable the students to understand the process of generation of non conventional sources of energy	Creativity Organization Presentation of ideas and content Neatness



**Principal**



## Datta Meghe World Academy

### Summer Vacation Holiday Homework (2023-2024)

Grade : IX				Theme - Travelogue		
Sr.no.	Subject	What to do? (Topic )	How to do? (Details of activity)	Where to do? (e.g Chart paper, N.E)	Why to do? (Reflection)	Rubric / Criteria
1	<b>English</b>	The Fun They Had	1. Design a book cover on the place you visited during summer vacation, give a suitable title. Write the paragraph of your visit. 2. Read any English newspaper every day. Pick any three editorials. Stick these three clippings on ruled sheets. Summarise each of them in 80-100 words. Add your own viewpoints	A4 size paper	- Critically think about the major themes, motifs, and symbols in a work of literature - Consider the relationship between characters and plot in creating a literary tone - Connection to and contribution with the world.	Neatness, Grammar & Vocabulary, Presentation, Content Organization of ideas Originality
2	<b>Mathematics</b>	To write your experience about a famous monument of India (connected with numbers) which you have gained after visiting the place.	Take print out of pictures. Gather information about the monuments related to age, material used in construction, if you can write their %, numbers of pillar, weight, height, girth etc in terms of mathematical information, about the reason, capacity to accomodate number of soldier etc wrt maths.	Make a portfolio, A4 size paper or tinted papers, 3-4 pages max. Stick all relevant pictures giving information, should have mathematical connotation to your related description.	To show that right from the olden era our math was quite strong and used in construction of fort, monuments etc.	Creativeness, neatness, detailed, presentable.
3	<b>Science</b>	Chem - Timeline on discovery of structure of atoms and it's subatomic particles, 2- Bio- Make a mind map of (creatively) of cell timeline and cell theory. Phy- Select any 5 monuments and find the distance between all via Bike, car & train. write about the types of motion taking place during the journey too. Present the information in tabular form.	Collect the information on discovery of structure of atoms and it's subatomic particles and prepare 3D model of it. 2- Collect information and prepare mind map of cell timeline and cell theory. Phy: Collect the information about the distance between each monuments and prepare a flow chart too for the same.	1. Chem - Chart Paper/Project paper 2. Bio-Chart Paper, Project paper. 3. Phy- A4 size colourful paper.	1- To prepare the students with basics of atoms and it's structure and inbuilt research motive among students. Phy- to let the students explore more about the distances, dis-graphs, role of motion during traveling, etc.	Chem- Creativeness, neatness, Research 2. Bio-Creativeness, neatness, Research. Phy: Knowledge, Creativity, originality, research & presentation skills.

4	Hindi	(एवरेस्ट : मेरी शिखर यात्रा) 1. (Roll no : 1 to 8) 2. (Roll no : 9 to 16) 3. (Roll no : 17 to 24) 4. (Roll no : 25 to last number)	1. एवरेस्ट पर चढ़ाई करने के लिए कुल मिलाकर कितने कैम्प बनाए गए थे ? एवरेस्ट पर्वत एवं उन कैम्पों तथा उनके ऊँचाई को चित्रों के माध्यम से स्पष्ट कीजिए। 2. पाठ को ध्यान से पढ़ते हुए लेखिका : बचेंद्री पाल : चित्र , जीवन परिचय तथा उपलब्धियाँ स्पष्ट कीजिए। 3. बचेंद्री पाल के अतिरिक्त अन्य किसी पर्वतारोही का चित्र सहित उनका जीवन परिचय तथा उपलब्धियाँ स्पष्ट कीजिए। 4. लोगों के द्वारा निरुत्साहित किए जाने पर भी बचेंद्री पाल ने अपने जीवन का सर्वोत्तम लक्ष्य प्राप्त किया एवं इस कथन " मन के हारे हार है, मन के जीते जीत " को सफल कर दिखाया , उसी प्रकार यदि आपके जीवन में कोई घटना घटी हो या देखी हो ,तो उसे स्पष्ट करते हुए इस कथन पर अनुच्छेद लेखन लिखिए।	1. Chart Paper (Draw the picture) 2. Chart Paper (Draw or paste the picture) 3. Chart Paper (Draw or paste the picture) 4. Perforated Sheet	1. उचित योजना एवं भौगोलिक स्थिति से परिचित होने के लिए। 2. जीवन चरित्र से रूबरू होने के लिए। 3. हमेशा आगे बढ़ते रहने की प्रेरणा प्राप्त करने के लिए।	1. Content, Creativity , Neatness , presentation , subimission 2. Content, infomation , vocabulary , presentation , submission 3. Content, infomation , vocabulary , presentation , submission 4. Content , vocabulary , handwriting , expressing thoughts , Submission
5	Marathi	Grade IX Marathi (holiday homework) पाठ -व्हेनिस 'व्हेनिस' या स्थूलवाचानाचे वाचन करून या पाठाचे वर्णन तुमच्या शब्दात स्पष्ट करा.	खालील मुद्द्यांचा वापर करून दिलेला प्रकल्प पूर्ण करा. १. नकाशातील स्थान २. शहरातील वातावरण , हवामान ३. शहराचे निसर्ग सौंदर्य ४. शहरातील लोकांचे जीवनमान	(प्रश्नाचे उत्तर लिहिण्यासाठी Project paper चा वापर करा.) आवश्यक तेथे स्केच पेन, रंगांचा व रंगीत चित्रांचा वापर करा	१. व्हेनिस शहराची संपूर्ण माहिती मिळवणे. २. व्हेनिस शहराचे वातावरण, हवामान, निसर्गसौंदर्य व जीवनमान यासर्वांची संपूर्ण माहिती मिळवणे. ३. विद्यार्थ्यांच्या लेखन, वाचन व सर्जनशीलतेला वाव मिळावा.	१. आशय २. अचूकता ३. नाविन्यता ४. नीटनेटकेपणा ५. वेळ
6	Sanskrit	Describe any one travelogue in Sanskrit.	Use लड़ लकार for making sentences. Depict your own journey of any place. Write 7 to 8 sentences.	Assignment Paper	To improve communication skill. To strengthen the लड़ लकार. To improve writing skill of students. To improve their thinking skill.	Creativeness, neatness, detailed, presentable.



7	Social Science	<p><b>HISTORY</b> - Forest society and colonialism  <b>Economics</b> - The story of village palampur  <b>Geography</b> - Finding places on the map and information about the silk route</p>	<p>Make a chart on different types of forest during the colonial era and compare the forest situations prevailed at pre-colonial, colonial and post colonial regime. Also try to integrate it with English Literature , what happens in India during pre-colonial, colonial and post-colonial era.  <b>Economics</b> - Make any two modern farming equipments which farmer uses for farming acitivity from waste materials and write discriptions about the use of tool for farming on A4 size paper.  <b>Geography</b> -  <b>MAP SKILLS</b>  1. Identify the following with the help of map reading.  (i) The island groups of India lying in the Arabian Sea and the Bay of Bengal.  (ii) The countries constituting Indian subcontinent.  (iii) The States through which the Tropic of Cancer passes.  (iv) The northernmost latitude in degrees.  (v) The southernmost latitude of the Indian mainland in degrees.  (vi) The eastern and the western-most longitude in degrees.  (vii) The place situated on the three seas.  (viii) The strait separating Sri Lanka from India.  (ix) The Union Territories of India.</p>	<p>On chart paper using pen, pencil colours, A4 size paper, Waste material  <b>Geography</b> -  1. Map skills will be done using the map book given to students  2. P[roject will be done using the project papers which will be attached in their portfolio later</p>	<p>To know about the various types of forests and the ristrictions imposed on those forests during the time of British rule. This will also help them to understand the laws implemented to save forests and prevent deforestation.  This will enhance the chapter understanding.  <b>Economics</b> : To know about the modern farming method. This will foster their creativity and understand about modern farming equipments.</p>	<p>Understanding of the content, Originality and Creativity, Organisation and representation of data/ideas.</p>
8	Physical Education	<p><b>Holiday Challenge</b> Run   Walk   Cycle Platinum Challenge 100km Gold Challenge 75km Silver Challenge 50km Bronze Challenge 25km</p>	<p><b>Running  Walking  Cycle Student</b> may select any one challange i.e Platinum, Gold, Silver or Bronze of your choice. Then select your activity for example Run,walk or cycle or you can use all the three choice according to your choice. Start with your challange in your area,place, locality, ground etc. Track your activity through various activity tracking device such as google fit app, Starva, Smart Band etc through which your run,walk or cycling activity distance and time ☺ will be recorded. Take a screenshoot/photo after completing your activity from your tracking device on daily basis which shows the distance and time . <b>Note There is no specific time limit of day to complete your challange you have to just complete your selected challange in your vaaction time for example If you walk or Cycle 2km to 3km a day you can easily complete your challenge.</b></p>	<p>Start with your challange in your area, place, locality, Public ground etc.  <b>Note: You can aslo do this challenge with your parents, brother sisters &amp; family members friends.</b></p>	<p>This challenge will help to be fit and healthy during your summer break and will also inclucate the habit of being fit ,will also motivate others</p>	<p><u>Track your activity through various activity tracking device such as google fit app, Starva, Smart Band etc through which your run,walk or cycling activity distance and time ☺ will be recorded. Take a screenshoot after completing your activity from your tracking device which shows the distance and time or take a photo. <b>Note: Evidence of following will be check by Phy.Edu Teachers i.e is screenshot of total distance covered,time, and number of days to complete the challenge. Then only you will get your certificate. Those who complete 100km and 75km will get medal and certificate. Terms and condions applied.</b></u></p>

*Rajeev Kumar*

Principal



## Datta Meghe World Academy

### Summer Vacation Holiday Homework (2023-2024)

Grade : X				Theme - CASE STUDY		
Sr.no.	Subject	What to do? (Topic)	How to do? (Details of activity)	Where to do? (e.g Chart)	Why to do? (Reflection)	Rubric / Criteria
1	English	Case Study Inm	1. Name of the write 2. Date of Birth, Date of Death (if applicable), Place of Birth 3. Career of the author 4. Struggle of the author 5. Literary style and Changes 6. Awards 7. Books by the author/ Geners 8. Reason behind reading his book 9. Inspiration 10. What i liked about the author 11. What i disliked about the author 12. Critical appriciation of the book 13. Summary	A4 size paper	- analyze about the writer and its work - critically reflect on their process of thinking and action and its consequences. - stimulates creativity and innovative thinking. Students shall be able to	Neatness Writing Style Case presentation/ uniqueness of the case Grammar & Vocabulary
2	Mathematics	Case Study: Aryabhata – Contributions to Mathematics	1: Introduction The introduction should briefly introduce Aryabhata, his life and his work in mathematics (invention of 0) 2: Aryabhata's Formulas: List some of the mathematical formulas developed by Aryabhata. Each formula should be explained in detail, with an explanation of how it works and why it is significant. These include: Contributions to Algebra: Aryabhata made significant contributions to algebra, including his method for solving indeterminate equations and his use of the quadratic formula. Contributions to the Number System: Aryabhata introduced the concept of zero and place-value notation in his work on mathematics. 3: Application of Formulas: Include at least three mathematical problems that can be solved using the formulas discovered. Each problem should be explained in detail, and the solution should be provided with a step-by-step explanation of how the formula was used to solve the problem. 4: Conclusion The conclusion should summarize the key findings of the project, including the mathematical formulas discovered and their significance.	Project Paper (for presentation, colour pens can be used, not sketch pens)	-To understand the life and work of Aryabhata, his contributions to mathematics and astronomy, and his impact on these fields. -To develop research skills, critical thinking, and analytical skills through the case study approach.	-Quality of research and understanding of Aryabhata's work -Correct application of the formulas to solve the mathematical problems -Clarity and conciseness of the project report -Quality of presentation

3	Science	<p><b>Chemistry : Investigatory Project</b> on "Classification of home usage materials as acids and bases on the basis of natural and olfactory indicators."</p>	<p>1. Timeline -- discovery (both natural and synthetic), 2. Flow Chart -- Classification of indicators , 3. Tree diagram -- Introduction to Acids and Bases ; Various theory associated in their classification , 4. 2D/ 3D Model -- Concept of pH , 5. Experimental part -- (a) Aim of the project (b) Materials Required (c) Procedure (d) Observation --- Tabular format (e) Conclusion (Based on observation made) (f) Importance of pH in human body &amp; stomach based on observations , (g) Bibliography.   <b>Record Video while performing experimental part with voice over ; simultaneously pictures must be attach in observation part   Remember classroom instructions</b></p>	<p>(i) Flexibility of materials for Point 1 to 4 ; (ii) Experimental part in -- A4 Size Paper (one side ruled paper)</p>	<p>Students would be able to : (a) categorize home based materials as acids and bases , (b) Examine the same materials with help of natural indicators made by students, (c) Apply the knowledge of observation to the importance of pH level in Human stomach.</p>	<p>-- confidence &amp; expression while recording video, -- Neat &amp; clean one sight detailing about the model/timeline/flow chart/tree diagram, -- Presentable project with good handwriting , -- Simplified form of procedure</p>
		<p><b>Biology:</b></p>	<p>*Timeline -- discovery (write a short paragraph on "Father of genetics') * Best out of waste Activity - Prepare a model on the given topic by using waste material on chart. Human Digestive system (Roll no1- 10), Human Respiratory system (Roll no11- 20), Human Excretory system (Roll no21- 30), Human Heart (Roll no.31- 40), Lymphatic System(Roll no41- 45)</p>	<p>1) short write up on full scale sheet ( flexibility of materials for decoration) 2) Best out of waste project - on the chart paper ( flexibility of materials)</p>	<p>students would be able to : a) utilize waste materials b) apply the knowledge of observation in daily life c) analyse about the father of genetics and realise the importance of the work done by him. c) enhances the creativity and critical thinking</p>	<p>1. Presentation 2. Writing content 3. Pictures / drawing - 4. Research and activity - 5. Creativity</p>
		<p><b>Physics:Investigatory Project on Mirror and Lens.</b></p>	<p>2D/3D model- Who invented mirror and lens, explanation of mirror and lenses with diagram and labelling, Types and mirror and lens, difference between types of mirror and lens, Sign convention, Image formation table for concave and convex mirror and lens, uses of concave, convex mirror and lens, formula of mirror and lens with magnification formula. Few more additional information can be added. Bibliography.</p>	<p>A4 size paper or Chart</p>	<p>Students will able to identify the uses of mirror and lens. Students presentation skill will increase.</p>	<p>Detail explanation is required. Diagram should be neat and clean with proper labelling. Creativity</p>
4	Hindi	<p><b>जीवनी</b></p>	<p>१.लेखक/लेखिका/कवि/कवयित्री का चित्र तथा उनका पूर्ण नाम २. जन्म तिथि, मृत्यु तिथि (यदि लागू हो), जन्म स्थान ३. लेखक का प्रारंभिक शिक्षण ४.लेखक का संघर्ष ५.भाषा शैली ६.लेखक/लेखिका/कवि/कवयित्री की प्रमुख कृतियाँ ७.प्राप्त पुरस्कार ८.किसी एक कृति का नाम लिखिए, उसे पढ़िए तथा उसका सारांश लिखिए  </p>	<p>A4 size paper</p>	<p>१. जीवनी के बारे में गहराई से समझते हुए अपने मित्रों के साथ चर्चा कर विचारों का आदान-प्रादान कर सकें   २. प्रमुख कृतियों पर टिप्पणी देते हुए विश्लेषण कर सकें  </p>	<p>१.विषय २. शुद्धता ३. नवाचार ४. वर्तनी ५. समय</p>

5	Marathi	तुम्हाला आवडणाऱ्या कोणत्याही एका मराठी लेखकाची दिलेल्या मुद्द्यांच्या आधारे संपूर्ण माहिती लिहा. (case study)	<ol style="list-style-type: none"> <li>लेखनाचे नाव</li> <li>जन्मतारीख, मृत्यूची तारीख (लागू असल्यास)</li> <li>लेखकाची कारकीर्द</li> <li>लेखकाचा संघर्ष</li> <li>साहित्यिक शैली आणि बदल</li> <li>पुरस्कार</li> <li>लिहिलेली पुस्तके. त्याचे पुस्तक वाचण्याचे कारण</li> <li>प्रेरणा</li> <li>लेखकाबद्दल काय आवडले</li> <li>लेखकाबद्दल काय आवडत नाही</li> <li>सारांश</li> </ol>		<p>(प्रश्नाचे उत्तर लिहिण्यासाठी Project paper चा वापर करा.) आवश्यक तेथे स्केच पेन, रंगांचा व रंगीत चित्रांचा वापर करा</p> <ol style="list-style-type: none"> <li>विद्यार्थ्याला त्या लेखकाबद्दल संपूर्ण ज्ञान होईल.</li> <li>लेखकाच्या जीवनातील संघर्ष व आनंदाचे क्षण यांचा अभ्यास करून प्रत्येकाच्या आयुष्यात सुख - दुःखाचे क्षण येतात यांची जाणीव होईल.</li> <li>विद्यार्थ्यांच्या लेखन व वाचन कौशल्याचा विकास होईल</li> </ol>	<ol style="list-style-type: none"> <li>आशय</li> <li>अचूकता</li> <li>नाविन्यता</li> <li>नीटनेटकेपणा</li> <li>वेळ</li> </ol>
6	Sanskrit	Case Study of any Sanskrit Writer	<ol style="list-style-type: none"> <li>Name of the writer</li> <li>Date of Birth, Date of Death (if applicable), Place of Birth</li> <li>Struggle of the author</li> <li>Literary style and Changes</li> <li>Books by the author/ Genres</li> <li>Reason behind reading his book</li> <li>Inspiration</li> <li>What I liked about the author</li> <li>What I disliked about the author</li> <li>Critical appreciation of the book</li> <li>Summary</li> </ol>	Assignment paper	<p>Students shall be able to</p> <ul style="list-style-type: none"> <li>- analyze about the writer and its work</li> <li>- critically reflect on their process of thinking and action and its consequences.</li> <li>- stimulates creativity and innovative thinking.</li> </ul>	<p>Neatness Writing Style Case presentation/ uniqueness of the case Grammar &amp; Vocabulary</p>
7	Social Science	CASE STUDY on World War I	<ol style="list-style-type: none"> <li>Division of group of countries involved in WWI with name of KING &amp; stick/ draw FLAG, ( on first page)</li> <li>Name of the leaders with the countries ,( on second page)</li> <li>Time Period of war, ( on third Page )</li> <li>Seven points for the world war I- describe each one), ( on fourth page)</li> <li>Who won the war and who was blamed, ( on fifth page)</li> <li>Impct of war on European countries ( 5 Pointers),</li> <li>Changes seen after World war I - ( Formation of UNION ),</li> </ol>	<p>On A 4 Size Project paper - Decorate the cover page - mention your Class, Div, Subject- ( Social Sci - His ), &amp; teachers Name- (Ms. Bharati Sharma) , , Make Index - Mention the content page wise.</p>	<p>The purpose of the project is to make them aware about historical background of WW I and make them analyse the situation that created the world wide situations. Students will generalise the situation and will be able to connect with Chp 1- The rise of Nationalism in Europe.</p>	<ol style="list-style-type: none"> <li>Presentation ( neatness/pointers) - 2 marks ,</li> <li>Writing content - 3 marks,</li> <li>Pictures / drawing - 2 marks,</li> <li>Research and activity - 2 marks</li> <li>Creativity - 1 marks</li> </ol>

8	Physical Education	<b>Holiday Challenge</b> Run   Walk   Cycle Platinum Challenge 100km Gold Challenge 75km Silver Challenge 50km Bronze Challenge 25km	<p><b>Running   Walking   Cycle</b> Student may select any one challenge i.e Platinum, Gold, Silver or Bronze of your choice. Then select your activity for example Run,walk or cycle or you can use all the three choice according to your choice. Start with your challenge in your area,place, locality, ground etc. Track your activity through various activity tracking device such as google fit app, Starva, Smart Band etc through which your run,walk or cycling activity distance and time ☺ will be recorded. Take a screenshot/photo after completing your activity from your tracking device on daily basis which shows the distance and time . <b>Note There is no specific time limit of day to complete your challenge you have to just complete your selected challenge in your vaaction time for example If you walk or Cycle 2km to 3km a day you can easily complete your challenge.</b></p>	Start with your challenge in your area,place, locality, Public ground etc. <b>Note: You can aslo do this challenge with your parents, brother sisters &amp; family members friends.</b>	This challenge will help to be fit and healthy during your summer break and will also inclucate the habit of being fit , will also motivate others	<p><u>Track your activity through various activity tracking device such as google fit app, Starva, Smart Band etc through which your run,walk or cycling activity distance and time ☺ will be recorded. Take a screenshot after completing your activity from your tracking device which shows the distance and time or take a photo. <b>Note:Evidence of following will be check by Phy.Edu Teachers i.e is screenshot of total distance covered,time, and number of days to complete the challenge. Then only you will get your certificate. Those who complete 100km and 75km will get medal and certificate. Terms and condions applied.</b></u></p>
---	--------------------	--	---	---	--	--



Principal



## Datta Meghe World Academy

### Summer Vacation Holiday Homework (2023-2024)

Grade : XII				Theme - Subjectwise Projects		
Sr.no.	Subject	What to do? (Topic)	How to do? (Details of activity)	Where to do? (e.g Chart paper, N.B etc)	Why to do? (Reflection)	Rubric / Criteria
1	English	<b>CASE STUDY : Entrepreneurs :</b> A case study is a self-contained story about how a real customer overcame their problems using your products or services.	Select an entrepreneur who inspires you, paste a picture of the entrepreneur along with the company's logo, Product, Client introduction, Problems faced by him /her, Solution, Results, data , Conclusion bibliography, websites references. (Clear headline, Snapshot)	Project paper, file it in a simple transparent file.	Studying about an entrepreneur and innovation enhances one's analytical and logical skills that enable one to solve any problem. Entrepreneurship mainly helps solve daily-life problems and eases pain points with the help of innovative products and services provided	1. Identification of the main issues and/or problems. 2. Analysis of the key issues.3. Alternative solutions and/or options.4. Observations and/or recommendations on effective solutions. 5. Data
2	Mathematics	Unlocking the Secrets of Matrices and Determinants: Applications in the Real World	1: Introduction to matrices and determinants, including their definitions and properties. Explanation of how matrices and determinants are used in various fields, such as engineering, computer science, physics, and economics. 2: Demonstration of basic matrix operations, such as addition, subtraction, multiplication, and inverse. Examples of how these operations can be used to solve systems of linear equations. 3: Explanation of determinants and how to calculate them. Examples of how determinants can be used to determine if a matrix is invertible, find the area of a parallelogram or volume of a parallelepiped, and solve systems of linear equations. 4: Research on real-world applications of matrices and determinants in fields such as computer graphics, cryptography, optimization, and data analysis. 5: Conclusion summarizing the key concepts and applications of matrices and determinants. How did this project deepen your understanding of these topics and their practical application?	Project Paper (for presentation, colour pens can be used, not sketch pens)	-Developing a deep understanding of matrices and determinants and their properties. -Applying matrix operations to solve systems of linear equations. -Understanding the concept of determinants and using them to determine the invertibility of matrices. -Analyzing and interpreting real-world data using matrices and determinants. -Understanding the importance of matrices and determinants in various fields, including computer science, physics, and engineering. -Enhancing research skills through exploring the real-world applications of matrices and determinants.	-Understanding: Demonstrating a clear understanding of matrices and determinants, and their applications in the real world. -Accuracy: Providing accurate and well-documented examples of matrix operations and determinants. -Creativity: Using creativity to demonstrate the real-world applications of matrices and determinants. -Research: Conducting thorough research on the real-world applications of matrices and determinants, and using this information to support the project. -Organization: Presenting the project in a well-organized and visually appealing manner.
3	Physics	Investigatory Project (Respective topics allotted to students)	{Generally for all students - but students are given flexibility to add few more sub pointers depending on their topic requirement ; add pictures } 1. Introduction, 2.Theory , 3. Application, 4. Aim of the project. 5. Materials Required (apparatus and chemicals) , 6. Procedure , 7. Observation , 8. Observation Table , 9. Calculation (if any), 10. Conclusion , 11. Advanatages and disadvantages of the experiment 12. Further suggested work on improvement / application of project topic choosen, 13. Bibliography	Word Document -- later submit hard copy	Students would be able to : 1. Research work on respective field of their project topic , 2. To comprehend the purpose on research and analyse the things, 3. Analyse the collected data and sequential arrangement as per the requirement, 4. to Interpret the future application of the selected topic, 5. Pros and Cons related to environment of the materials involved in selected topic.	1. Authenticity & plagiarism of collected data, 2. Presentation of project, 3. Detailing of each information. 4.Observations and/or recommendations on effective solutions
4	Chemistry	Investigatory Project (Respective topics allotted to students)	{Generally for all students - but students are given flexibility to add few more sub pointers depending on their topic requirement ; add pictures } 1. Introduction, 2.Theory , 3. Application, 4. Aim of the project. 5. Materials Required (apparatus and chemicals) , 6. Procedure , 7. Observation , 8. Observation Table , 9. Calculation (if any), 10. Conclusion , 11. Advanatages and disadvantages of the experiment / materials on human/environment / animals, 12. Further suggested work on improvement / application of project topic chosen, 13. Bibliography	Word Document -- later submit hard copy	Students would be able to : 1. Research work on respective field of their project topic , 2. To comprehend the purpose on research and analyse the things, 3. Analyse the collected data and sequential arrangement as per the requirement, 4. to Interpret the future application of the selected topic, 5. Pros and Cons related to human / animals / environment of the materials involved in selected topic	1. Authenticity & plagiarism of collected data, 2. Presentation of project, 3. Detailing of each information. 4.Observations and/or recommendations on effective solutions

5	<b>Biology</b>	Investigatory Project (Respective topics allotted to students)	1.Title of the investigatory project 2.Objectives 3.Materials required 4.Method 5.Result 6.Analysis and interpretation:7. Discussion 8.Conclusion 9.References (Generally for all students - but students are given flexibility to add few more sub pointers depending on their topic requirement ; add pictures ;	Word Document -- later submit hard copy	Students would be able to-* Design and critically assess the scientific investigations they perform. *Demonstrate critical thinking skills.* enhances analytical and logical skills that enable them to solve problem.	1. Authenticity & plagiarism of collected data, 2. Presentation of project, 3. Detailing of each information
6	<b>Accountancy</b>	Investigatory Project (Respective topics allotted to students)	1. Title of the project. 2. certificate 3. Acknowledgment 4. Index 5. Objectives 6.Methodology 7. Main presentation 8. Analysis and Interpretation 9. Conclusion 10. Bibliography and reference	Project paper and file	Student would be able to - Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	1. Authenticity & plagiarism of collected data, 2. Presentation of project, 3. Detailing of each information
7	<b>Economics</b>	Investigation Project	1) Write the synopsis of tthe discussed CBSE projects in the classroom. 2) Prepare questionnaire which include 10 to 15 Questions of your selected Project.	A4 size paper	Students shall be able to - identify a topic, organize and structure thoughts and with a sense of purpose - stimulates creativity and innovative thinking. - To enable students to write the research work in an effective manner.	Writing Style Organization Of questions Presentation Content
8	<b>Business Studies</b>	Investigatory Project (Respective topics allotted to students)	1. Title of the project. 2. certificate 3. Acknowledgment 4. Index 5. Objectives 6.Methodology 7. Main presentation 8. Analysis and Interpretation 9. Conclusion 10. Bibliography and reference	Project paper and file	the students will be able to do the following: * develop a practical approach by using modern technologies in the field of business and management; * get an opportunity for exposure to the operational environment in the field of business management and related services; * inculcate important skills of team work, problem solving, time management, information collection, processing, analysing and synthesizing relevant information to derive meaningful conclusions * get involved in the process of research work; demonstrate his or her capabilities while working independently	1. Authenticity & plagiarism of collected data, 2. Presentation of project, 3. Detailing of each information
9	<b>Sociology</b>	Research Based Project	1. Title of the project, 2. Objective and Hypothesis 3. Literature Review 4. Methodology	Project Paper and file	Students will build a rational for their research and work on the secondary data to write a literature review section, based on which they will prepare a research design	Only research papers should be referred and plagiarism should be avoided.
10	<b>Political Science</b>	<b>Reasearch based project.</b>	Globalization, Make in India, NITI Aayog, Religion as security threat, Emergency in 1975,Challenging politics on Climatic change,Indian as new center of Power	Power point presentations.	Students will be able to analyze and understand different important political orgnisations.	1.Preparation 2. reasearch 3.presentations.

11	Legal Studies	Prepare ppt presentation on 5 decided cases(civil, property , criminal)	The research on the cases must include the following points: a. Name of the case b. Parties to the case c. Nature of the case (Civil, Criminal or Constitutional) d. Facts of the case and issues involved e. Decision of the case f. Citation of the case	Soft copies on microsoft documents	Students will be able to understand the different laws.	1.Preparation and presentation 2. Research work 3 .Understanding
12	Physical Education	Holiday Challenge Run   Walk   Cycle Platinum Challenge 100km Gold Challenge 75km Silver Challenge 50km Bronze Challenge 25km	<b>Running  Walking  Cycle Student</b> may select any one challenge i.e Platinum, Gold, Silver or Bronze of your choice. Then select your activity for example Run,walk or cycle or you can use all the three choice according to your choice. Start with your challenge in your area,place, locality, ground etc. Track your activity through various activity tracking device such as google fit app, Starva, Smart Band etc through which your run, walk or cycling activity distance and time ☺ will be recorded. Take a screenshot/photo after completing your activity from your tracking device on daily basis which shows the distance and time . <b>Note There is no specific time limit of day to complete your challenge you have to just complete your selected challenge in your vaaction time for example If you walk or Cycle 2km to 3km a day you can easily complete your challenge.</b>	Start with your challenge in your area,place, locality, Public ground etc. <b>Note: You can aslo do this challenge with your parents, brother sisters &amp; family members friends.</b>	This challenge will help to be fit and healthy during your summer break and will also inclucate the habit of being fit ,will also motivate others	<u>Track your activity through various activity tracking device such as google fit app, Starva, Smart Band etc through which your run,walk or cycling activity distance and time ☺ will be recorded. Take a screenshot after completing your activity from your tracking device which shows the distance and time or take a photo .Note: Evidence of following will be check by Phy.Edu Teachers i.e is screenshot of total distance covered,time, and number of days to complete the challenge. Then only you will get your certificate. Those who complete 100km and 75km will get medal and certificate. Terms and condions applied.</u>
13	FMM	Power Point Presentation ( NSE, its different segments, products and membership process)	a) Introduction, b) Identification of core and advance issues, c) Learning and understanding and Observation during the project period.	Soft copies	Students will be able to - To develop financial skills <input type="checkbox"/> To build foundation for money management and equity market <input type="checkbox"/> To develop basic understanding of mutual funds, capital and derivative market <input type="checkbox"/> To build speed and accuracy for financial market operations	1.Preparation and presentation 2. Research work 3 .Understanding
14	Informatics Practice	SQL Queries	Solve all the queries by executing on MYSQL Software	Journal	Students will be able to deduce that how companies and startups use SQL as a tool to interact with databases and retrieve crucial data, as well as how SQL is used in daily life for data analysis and performance analysis.	
15	Mass Media	CASE STUDY : Entrepreneurs : A case study is a self-contained story about how a real customer overcame their problems using your products or services.	Select an entrepreneur who inspires you. paste a picture of the enpreneur along with the company's logo, Product, Client introduction, Problems faced by him /her, Solution, Results, data , Conclusion bibliography, websites references. (Clear headline, Snapshot) <b>BRAND DECONSTRUCTION</b>	Create a video.	Studying about an entrepreneur and innovation enhances one's analytical and logical skills that enable one to solve any problem. Entrepreneurship mainly helps solve daily-life problems and eases pain points with the help of innovative products and services provided.	Creativity, effects, transitions,content, originality, innovation , story board, scripting, credits, planning and execution.
16	Psychology	Survey on Attitude	Conduct the survey online(using google form) or offline. Use Questionnaire to gather information (can be found online or create of your own). The sample size of the survey should be atleast 20 participants. Once the responses are collected do the scoring and interpretation of the same.	On A4 size ruled project papers.	To understand the practicality of the survey method being studied academically. To prepare oneself for the future research work in Psychology.	Content, variables used, hypothesis formation, questionnaire(reliability & validity), scoring and interpretation and accuracy.



17	<b>Applied Mathematics</b>	Unlocking the Secrets of Matrices and Determinants: Applications in the Real World	<p>1: Introduction to matrices and determinants, including their definitions and properties. Explanation of how matrices and determinants are used in various fields, such as engineering, computer science, physics, and economics.</p> <p>2: Demonstration of basic matrix operations, such as addition, subtraction, multiplication, and inverse. Examples of how these operations can be used to solve systems of linear equations.</p> <p>3: Explanation of determinants and how to calculate them. Examples of how determinants can be used to determine if a matrix is invertible, find the area of a parallelogram or volume of a parallelepiped, and solve systems of linear equations.</p> <p>4: Research on real-world applications of matrices and determinants in fields such as computer graphics, cryptography, optimization, and data analysis.</p> <p>5: Conclusion summarizing the key concepts and applications of matrices and determinants. How did this project deepen your understanding of these topics and their practical application?</p>	Project Paper (for presentation, colour pens can be used, not sketch pens)	<ul style="list-style-type: none"> <li>-Developing a deep understanding of matrices and determinants and their properties.</li> <li>-Applying matrix operations to solve systems of linear equations.</li> <li>-Understanding the concept of determinants and using them to determine the invertibility of matrices.</li> <li>-Analyzing and interpreting real-world data using matrices and determinants.</li> <li>-Understanding the importance of matrices and determinants in various fields, including computer science, physics, and engineering.</li> <li>-Enhancing research skills through exploring the real-world applications of matrices and determinants.</li> </ul>	<ul style="list-style-type: none"> <li>-Understanding: Demonstrating a clear understanding of matrices and determinants, and their applications in the real world.</li> <li>-Accuracy: Providing accurate and well-documented examples of matrix operations and determinants.</li> <li>-Creativity: Using creativity to demonstrate the real-world applications of matrices and determinants.</li> <li>-Research: Conducting thorough research on the real-world applications of matrices and determinants, and using this information to support the project.</li> <li>-Organization: Presenting the project in a well-organized and visually appealing manner.</li> </ul>
----	----------------------------	--	--	--	--	---

*Rajeev Kumar*

**Principal**