

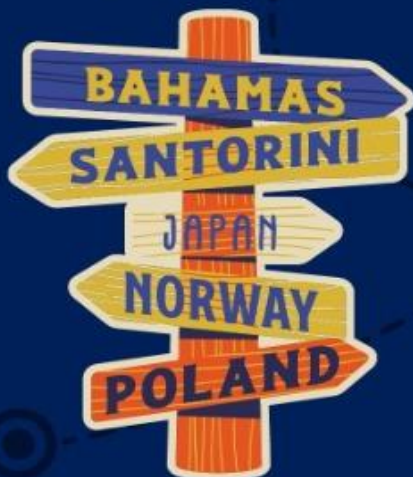


Holiday Engagement

2022-23

CLASS 8

SUMMER



DZEN
WHERE ART MEETS TECHNOLOGY

Happy Holidays!!

With an array of emotions, we enter the golden months of May and June. With summer vacations right around the corner, exhilarated souls of the young and bright minds are bursting forth with unmatched spark. With the holidays comes an opportunity to unwind and relax. However, we ought to maintain a learning continuum even during the much needed break, and to let the creative juices flow, what better than an enriching dose of Holiday Engagement!

We have been handed the gift of time, which must be judiciously used via lucrative research and project work.

With special care and attention, the Holiday Engagement work for all the subjects has been drafted by the teacher-mentors in order to make the learning process enlightening, productive by breaking monotony, thereby, keeping it light.

A treasure box of educational activities to be done individually to boost self confidence, along with group activities to promote collaborative learning have been designed keeping in mind the 21st century skills. Experiential learning through hands-on activities and reflection is the focal point of the tasks listed, which would relate theoretical knowledge with practical one. It aids in the promotion of other skills like Leadership, Critical thinking, Creativity, Communication, Collaboration, and Information and Media literacy preparing the students for future pursuits, giving them an edge over others.

Principal

ENGLISH

Make the most of yourself by fanning the tiny, inner sparks of possibility into flames of achievement !

1. Make a colourful collage on a standard A3 sheet using photographs, headlines, articles, pictures and catchy slogans and phrases on the campaign '**Save Soil**' run by Sadhguruji. Give an eye catchy title to your collage.

2. Read 'Macbeth' and 'The Merchant of Venice' from The Tales of Shakespeare. Prepare a PowerPoint Presentation as per the instructions shared below:-

*You may prepare the PPT in 3 to 4 slides only on-
Character sketch of Banquo/ Macbeth from 'Macbeth'

Or

Antonio/ Shylock/ Bassanio from 'The Merchant of Venice'.

* Use examples from the story to support the character.

* You may use animation/ picture/ audio to show your creativity.

* Your content should be precise . You may mention it in points instead of paragraphs.

HINDI

Material/Resources Required: A-4 साइज़ शीट्स, रंग, पैन, सजावट का सामान आदि।

Instructions / Guideline:

**थोड़ा मेरा, थोड़ा तुम्हारा
मिलें साथ तो बने- हमारा**

बच्चों वह दिन आ ही गए, जिसका आप सभी को बेसब्री से इंतजार रहता है। जी हां, गर्मी की छुट्टियां शुरू....और साथ ही मस्ती, मज़ा, सैर-सपाटा...न जाने क्या- क्या! इसी माहौल में यदि कोई ऐसा काम भी किया जाए जो अपने साथ, समाज के लिए भी अच्छा हो तो कैसा रहे! छुट्टियों में चार चांद लग जाएंगे। तो दौड़ाओ अपनी कल्पना के घोड़े और पता लगाओ कि आपके घर या मोहल्ले के ऐसे कौन- कौन से कार्य हैं जो अधूरे हैं या अभी शुरू ही नहीं हुए या फिर जिन्हें परस्पर सहयोग से पूर्ण किया जा सकता है।

ऐसे किन्हीं दो कार्यों को चुने और उन्हें पूर्ण करें। ऐसा करते हुए रंगीन A-4 शीट/ शीटों पर अपने सुंदर- सुंदर चित्र चिपकाएं तथा कार्य के विषय में जानकारी देते हुए कुछ पंक्तियां लिखें। शीटों को सजाना तो बिलकुल न भूलें।

(शीट 2 या 2 से अधिक भी प्रयोग की जा सकती हैं)

Work Specification:

उदाहरण के लिए कुछ कार्य यहां दिए जा रहे हैं:-

*आपके घर में काम करने वाले सहयोगी जैसे माली, आया, ड्राइवर आदि को भी शायद आपके सहयोग की आवश्यकता हो। मसलन- उनके बच्चों को मुफ्त शिक्षा देने जैसा कोई कार्य



या

*घर/ सोसायटी के कचरे का कोई सदुपयोग करते हुए कोई कार्य

या

*अपने आस पास के वातावरण को प्रदूषण मुक्त बनाने के लिए मिलकर किया गया कोई कार्य



तो ऐसे ही कुछ कार्य जिसमें मिलजुलकर काम करने से न केवल आपसी सहयोग बढ़े अपितु कुछ भला भी हो।

Date of Submission: जुलाई के प्रथम सप्ताह में, विद्यालय खुलने पर।

Material/Resources Required:A-4 coloured sheets, coloured craft papers, online research

Instructions / Guideline:The greatness of a culture can be found in its festivals. European countries are a mark of festivals. So which festival attracts you most in your respective languages. Do a detailed research work on it and inculcate your creativity.

Work Specification:Keep the following points in mind:(date, time, cities, decor, ambience, tourism aspect, history, costume, music,dance)

Date of Submission:By 11th July'2022



OR

Material/Resources Required: A-4 coloured sheets, coloured craft papers, online research.

Instructions / Guideline:The formation of literature in different countries happened not at the same time, which is connected with the emergence of writing and artistic creativity. Literature gives us a glimpse into worlds we know nothing about.Each nation`s literature has its own artistic and national features.A countries` literature is an object of national pride and a principal focus for feelings of national identity. So why not find out more about the history of the writers/poets that interest you most in your respective languages.Do a detailed research work on it and inculcate your creativity.

Work Specification: Write 10-12 lines on your favourite author of your respective languages.Keep the following points in mind (Name of the author, DOB,Place of birth,Genre,Notable work,Family,Education).Students may use the decorative materials. Paste the pictures of the book/novel and the writer.

Date of Submission:By 11th July'2022



SANSKRIT

Material/Resources Required: A-3 /A-4 SHEETS, COLOURED MARKER PENS, DECORATIVE ITEMS, GLUE, online research.

Instructions / Guideline: इस कार्य के लिए आपको आंतरिक मूल्यांकन के अंतर्गत अंक दिए जाएँगे। A-3 या A-4 sheet को अपनी संस्कृत कार्यपुस्तिका में चिपकाएँ।

Work Specification: संस्कृत भाषा के महान कवि - महाकवि कालिदास की कृति-अभिज्ञान शाकुन्तलम का चित्र चिपकाओ तथा उनके जीवन पर ५ पंक्तियाँ संस्कृत भाषा में लिखो | कार्य को सुन्दर रूप से सजाकर प्रस्तुत करो |

Date of Submission: ग्रीष्मावकाश के बाद प्रथम सप्ताह में आप अपना काम दे सकते हैं।

SOCIAL SCIENCES

Material/Resources Required: A4 size sheets, art material, Chart paper, fabric beads and any other material you want to use.

Instructions / Guideline:

Each student will do two individual projects.

All the work should be neatly written in the students handwriting or neatly and aesthetically made original items by the students.

Original drawings / illustrations, where stipulated, and creative use of the material will be appreciated.

Present your work aesthetically inside an attractive folder with your name, class and roll no. clearly written at the top.

You can reuse an old folder or make one with a newspaper.

All written work to be done on A-4 size sheets .

The project should be handed over to the Social Science teacher and your hard work will be rewarded.

The marks thus accrued will be counted as a part of the internal assessment.

The individual work will be evaluated along the following parameters.

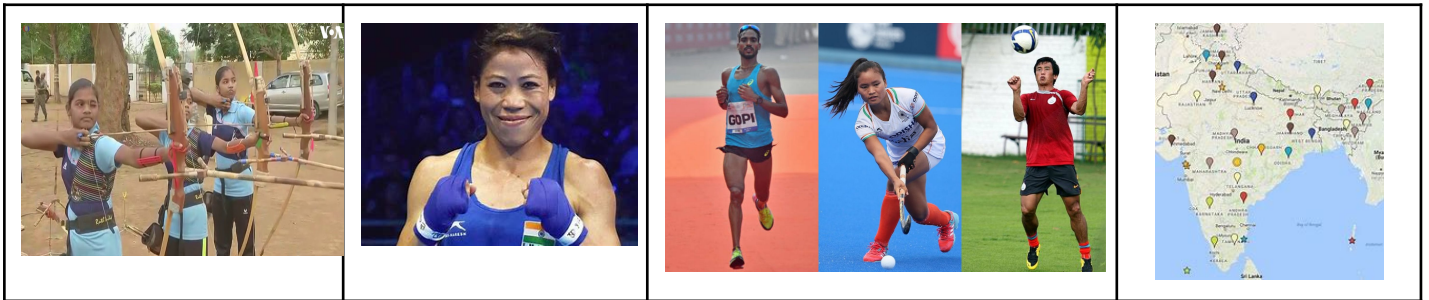
1. Creativity
2. Presentation
3. Originality

4. Research

Work Specification: Both Tasks are compulsory.

There is a list of activities in Task 2 ,out of which you can do any one

Date of Submission: July 15,2022.



Task 1

On an A4 size sheet every student will do the following tasks after completing their investigation. Students will:

- Make a list of at least six names of individuals belonging to the tribes of India from where one athlete has represented India in the sports/ athletic events mentioned below:
 1. Athletics
 2. Archery
 3. Shooting
 4. Hockey
 5. Boxing and wrestling
 6. Football
- Write the name of the athlete.
- The achievement of the athlete.
- Write a few lines about the lives of the athlete as children, and what motivated them to follow their goal.

Task 2



Every individual student will do any **one** of the following tasks.

- Make an original tribal artwork, it could be a painting inspired by tribal art forms {madhubani, Warli, Gond tribal art etc.}

or

- Dye a piece of fabric the tribal way or embroider the fabric in the tribal style.
- or
- Record a folk dance
- or
- Folk song
- or
- Make a piece of jewelry
- or
- Write a poem about tribal people.
- or
- Click a picture of yourself in a tribal costume.
- or
- Record a few steps of a tribal dance.



The links given below will help you with the understanding of the tribal people. They are a sample of the kind of folk music and dance and traditions that exist in India and would help you understand the strength of these traditions. They could be a starting point of your research/investigation.

Folk dances and tradition of India

<https://youtu.be/mpmpsYe7Ljw>

<https://youtu.be/bsbrFg4idUM>

<https://youtu.be/bsbrFg4idUM>

<https://youtu.be/bsbrFg4idUM>

<https://youtu.be/bsbrFg4idUM?list=RDbsbrFg4idUM>

<https://youtu.be/NOS3A5xbQj4>

<https://youtu.be/NOS3A5xbQj4>

<https://www.msn.com/en-in/video/news/tripura-locals-get-frogs-married-to-please-rain-god/vi-BB1gpAz5>

SCIENCE

Material / Resources Required: Scrapbook, chart papers, thermocol, glue, colored pens/pencils etc., Science textbook, encyclopedia, online research.

General Instructions / Guidelines :

- ❖ All the work should be hand-written.
- ❖ Original drawings / illustrations and creative use of the material will be appreciated.
- ❖ Present your work aesthetically in a scrapbook / folder or on A-4 size sheets (in case of collages or presentations) and put it in an attractive folder with your name, class and roll no. clearly written at the top. .

The project needs to be completed on time and should be handed over to the Science teacher. It will be counted as a part of the internal assessment grading.

The work will be evaluated for all the subjects on the following parameters.

1. Idea and content
2. Innovativeness and Creativity
3. Presentation
4. Originality
5. Neatness

Work Specification: Read Chapter 1 - Crop Production from your textbook and do ANY ONE of the following topics or any other topic from the chapter that interests you. Present it in a folder, as a collage, as an activity, experiment or as a working model for the upcoming Science Exhibition. Support your presentation with a write-up on an A3 size sheet or a chart paper.

TOPICS :

- (1) Soilless farming
- (2) Organic farming
- (3) Terrace farming
- (4) Solar irrigation system
- (5) Drip / Sprinkler / Furrow / Canal irrigation
- (6) Crop / Mixed rotation
- (7) Hybrid plants
- (8) Animal husbandry / apiculture / pisciculture
- (9) Making your own manure / natural fertilizer / natural pesticides
- (10) Working model of a wind turbine / dam

Here are some links you can view to get ideas for making your own working models individually -

1. Drip irrigation working model

<https://www.youtube.com/watch?v=noRScazRZ6g>

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

2. Drip irrigation working model making using waste materials

https://www.youtube.com/watch?v=64xrgnneV_s

3. Agricultural Farming Working Model (Using Solar Energy)
<https://www.youtube.com/watch?v=Zp-9NSv1vG4>
4. Sprinkler irrigation system working model
<https://www.youtube.com/watch?v=KCLbBQBMeEw>
5. Furrow Irrigation Model
https://www.youtube.com/watch?v=_XmCaGA3MyE
6. Watering using Solar Power
<https://www.youtube.com/watch?v=EMU9VSweJzc>
7. Solar irrigation system working model
<https://www.youtube.com/watch?v=sbSbFeFo298>
8. Agriculture Project Ideas -
 1. Terrace Farming Model
 2. Drip Irrigation Model
 3. High Tunnel Model
 4. Hydroponic Farming Model<https://www.youtube.com/watch?v=dJoZbrKscfQ>
9. Organic farming
<https://www.youtube.com/watch?v=KZoj8GBRXYI>
https://www.youtube.com/watch?v=2ddw_rp3cMo
10. Making organic pesticides
<https://www.youtube.com/watch?v=ENpjyM46ViY>
11. Working model of a wind turbine from cardboard
<https://www.youtube.com/watch?v=JXYkjHKakGE>
12. WORKING DAM MODEL
<https://www.youtube.com/watch?v=BwFmuqlcgZU>
13. 15 Best Science Projects
<https://www.youtube.com/watch?v=TDNay0tvnLY>

14. 20+ Science Fair Projects That Will Wow The Crowd

<https://www.youtube.com/watch?v=hQ03NIOeEu4>

15. Science Experiments

<https://youtube.com/c/IISERPuneScienceActivityCentre>

16. Science Experiments

<https://sites.google.com/acads.iiserpune.ac.in/iiserp-scienceactivitycentre/subject-wise-activities/physics-activities?authuser=0>

Date of Submission: First week of July, 2022.

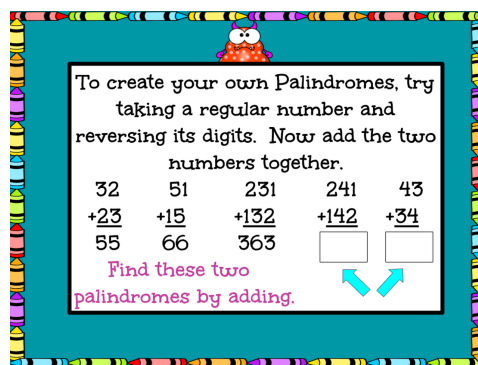
MATHEMATICS

Material/Resources Required: Scrapbook, chart papers, glue, colored pens/pencils.

Instructions / Guideline: The project needs to be completed aesthetically in a scrapbook and should be handed over to the Maths teacher. It will be counted as a part of the internal assessment grading.

The Project work will be assessed on the following- content, originality, presentation and creativity.

Work Specification:



I) Observe the square of numbers 1,11,111,1111 etc. They give a beautiful pattern as follows-

$$1^2 = 1$$

$$11^2 = 121$$

$$111^2 = 12321$$

$$1111^2 = 1234321$$

$$11111^2 = 123454321$$

$$111111^2 = 12345654321$$

$$1111111^2 = 1234567654321$$

$$11111111^2 = 123456787654321$$

These numbers are called **Palindrome numbers**.

Let's explore more on Palindrome numbers

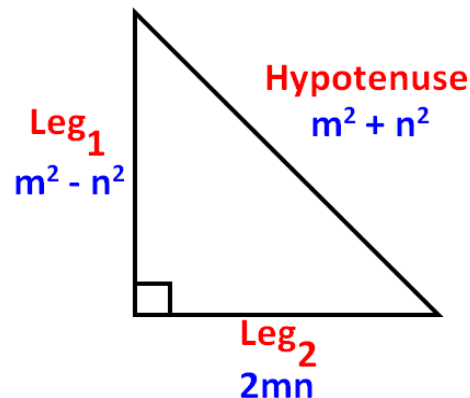
Collect different patterns of numbers and palindrome numbers and illustrate them in a scrapbook.

- What makes a number palindrome? Give a few examples of Palindrome numbers from surroundings.
- How do you make a palindrome in math? Explain with an example.
- How many palindromic numbers are there between 10 and 1000?
- Find a Palindrome using number 754.
- How many 3- digit palindromes are there?

II) About 2500 years ago, the famous mathematician **Pythagoras** found an amazing fact about triangles: **"The area of the square on the hypotenuse of a right -angled triangle is equal to the sum of the areas of squares on the other two sides."**

The Pythagorean property relates the lengths **a** and **b** (of the two legs of a right triangle) with the length

c of the hypotenuse, in the equation $a^2 + b^2 = c^2$



Suppose one leg **a** = $m^2 - n^2$, second leg **b** = $2mn$ and hypotenuse **c** = $m^2 + n^2$, where m and n are integers.

Using the above data ,fill the following table .This table gives **Pythagorean triplets**.

| m | n | b=2mn | a= m² - n² | c= m² + n² | Pythagore an triplets |
|----------|----------|--------------|---|---|------------------------------|
| 2 | 1 | 4 | 3 | 5 | (3,4,5) |

| | | | | | |
|-----------|----------|----------|----------|-----------|-----------------|
| 3 | 1 | 6 | 8 | 10 | (6,8,10) |
| 3 | 2 | | | | |
| 4 | 1 | | | | |
| 4 | 2 | | | | |
| 4 | 3 | | | | |
| 5 | 1 | | | | |
| 5 | 2 | | | | |
| 5 | 3 | | | | |
| 5 | 4 | | | | |
| 6 | 5 | | | | |
| 7 | 6 | | | | |
| 8 | 4 | | | | |
| 9 | 8 | | | | |
| 10 | 7 | | | | |

a) How can you create Pythagorean triplets , if the smallest member of the family is an

- i) even number
- ii) Odd number

b) What are the applications of the Pythagorean theorem in real life?

Date of Submission: The project should be submitted by the first week of July