



SPRINGFIELD PUBLIC SCHOOL

Holiday Homework

Session(2024-25)

CLASS:- 10th

Dear Parent

The summer Vacation for all classes have commenced from 24/05/2024 the students are encouraged to spend significant time in regular studies, Holiday home work for your ward is being sent to you. I would encourage every child to develop healthy reading habits in order to be relevant and smart.

Regards.

Instructions :-

- All Homework assignments to be done in A4 size sheets.
- Homework should be presentable and hand written only.

Subject:- Mathematics

Assignment - 1

Q1. Show that $3\sqrt{2}$ is irrational

Q2. Show that $5-\sqrt{3}$ is irrational

Q3. Express number as product of it's prime factor of 140

Q4. Find LCM and HCF of pairs of integers also verify that $LCM \times HCF = \text{product of two numbers}$ of 25 and 91

Q5. Use Euclid division algorithm to find HCF of 135 and 225

Q6. Show that any positive odd integers is of form $6q+1$ or $6q+3$ or $6q+5$ where q is some integers

Q7. Define Euclid Division lemma

Q8. Find zeros of polynomial of x^2-3 also verify relationship between zeros and Coefficients.

Q9. Find quadratic polynomial with given numbers as sum and products of zeros are 1, 1.

SOME IMPORTANT QUESTIONS:-

i) Polynomial of degrees 1, 2 and 3 are called.....

ii) How many number of zeros for quadratic and cubic polynomial

iii) Find sum and product of zeros from ax^2+bx+c

- iv) State whether statements are true and false
- Every irrational number is a real number.
 - Every real number is an irrational number.

Note:- Complete the worksheet from the separately sent PDF files.

Subject – Science

Biology:-

Dear students Complete given the below bio experiment in your bio practical file.(
Newway Publication)

- 1) Make a portfolio in a transparent file on any one topic from chapter management of natural resources.
 - a) Experimentally Show That Carbon Dioxide Is Given out During Respiration
 - b) Identification of the Different Parts of an Embryo of a Dicot Seed
 - c) Preparing a Temporary Mount of a Leaf Peel to Show Stomata
 - d) Studying Binary Fission in Amoeba and Budding in Yeast with the Help of Prepared Slides.
- * Complete the given worksheet in your bio notebook.

Chemistry:-

1. Prepare Ch-1 for oral presentation.
2. Prepare a model from any chapter of chemistry.
3. Write NCERT questions in Chemistry notebook.
4. Complete project report of science

Note:- Complete the worksheet from the separately sent PDF files.

Physics :-

- * Do the given worksheet in your notebook and test of Ch-' Light '

Note:- Complete the worksheet from the separately sent PDF files.

Subject – English

GENERAL INSTRUCTIONS:

- Ensure that your homework is well-organized and easy to understand. Use headings, subheadings, and bullet points when necessary.
 - Label holiday homework and submit in a decorated handmade A4 size folder.
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 - Solve the worksheets from module -2 Formal letter writing. Module 3 Analytical Paragraph.
 - Solve the worksheets from Module-6 & 7 of Literature I & II of all the Chapters done till now in the class.
1. **Start a Word Journal:** Create a journal where you can write down new words you come across during your holidays. Include their meanings, synonyms, and usage examples. Challenge yourself to learn at least five new words every week. Write it in your Notebook.
 2. Choose a book of your interest and read it during your holidays. Once you finish reading, write a thoughtful book review. Include a brief summary, your opinion on the plot and characters, and explain what you liked or disliked about the book. Be sure to support your opinions with examples from the text.
 3. Movie Review: -
 - a) Watch the movie “Inside Out”.
 - b) Write the synopsis of the movie.
 - c) Describe all the five emotions shown in the movie-joy, sadness, anger, disgust and fear.
 - a) Name of the character (emotion)
 - b) Physical appearance.
 - c) Role played by the character in the movie.
 - d) Which is your favourite character and why?

***PORTFOLIO:**

PREPARE A PORTFOLIO WITH THE FOLLOWING –

(Prepare a file with A4 size sheets)

- ❖ Introduction
- ❖ My strengths
- ❖ I need to improve on
- ❖ My achievements
- ❖ I have participated in...
- ❖ The books I have read
- ❖ The book I wish to read

Note:- All work to be done in a file do it on A4 size sheets along with to whom it is being submitted, acknowledgement Index.

SUBJECT:- Social Science

Q-1:

- 1) Name the country where a majority community forces its dominance over other and refuse its dominance over other and refuses to share power.
- 2) Name any two countries with which Belgium share borders.
- 3) Which city was chosen as the headquarters of the European Union?
- 4) Why did civil war break out in Sri Lanka? List the results of the Civil War.
- 5) "Power Sharing is the very spirit of democracy." justify the statement.
- 6) Describe the ways in which power can be shared among different Social groups.
- 7) Explain the difference between horizontal power sharing and vertical power sharing.

Q2. Do reading

1. The rise of nationalism in Europe.
2. Nationalism in India.

Q3.

1. What do you understand by the word "Satyagrah"?
2. When did Jalianwala Bagh incident occur?
3. Who wrote the book "Hind Swaraj"?

Geography:

*Prepare an Extensive comparison Table of Energy Resources used in India. Conclude conventional, hon conventional i potential and Stock resources.

Civics

* Do a case study of any one country on federalism.

History:

* Make a scrap book Indian Freedom Fighters on the occasion of 76 Years of Independence...

Social Issues:

The Student must write about following key matter:

(a) A social issues in Indian Society

(b) Reforms Initiated to combat the Social issues.

(C) Role of Popular leaders and movements

Subject – Economics

- Make a complete project on any one of the following topics
 - 1) Consumer Awareness
 - 2) Social Issues
 - 3) Sustainable Development

Project should consist of 30 to 40 pages.

विषय :- हिंदी

ग्रीष्म-अवकाश

गृह-कार्य

निम्नलिखित विषयों में से किसी एक विषय पर अपने शब्दों में कविता लिखो।

1)'हरिहर काका' कहानी से आपको क्या सीख मिली अगर आपके आस पास हरिहर काका जैसा अत्याचार किसी अन्य व्यक्ति पर हो रहा होता तो आप उसकी मदद किस प्रकार करते अपने शब्दों में लिखिए |

2) सपनों से के दिन कहानी का स्वयं पठन कीजिये व आपके बचपन के दिनों के 'सपनों से के दिन' कैसे थे, अपने शब्दों में अपने अनुभवों को कम से कम 200 शब्दों में लिखिए ।

3) "गर्मी में ठंडक का एहसास कराने आ गए पंखें" विषय पर एक प्रभावी विज्ञापन तैयार करें।

4) ' आसक्ति' विषय पर एक लघुकथा लिखिए ।

नोट :- *हिंदी का सभी गृहकार्य एक फ़ाइल में तैयार करें फ़ाइल कवर को सुन्दर तरीके से सुसज्जित कीजिये ।

* पढ़ाये गए पाठ्यक्रम को अच्छे से याद करें व लिखित अभ्यास करें।

*आपकी छुटियाँ आनंददायक हों, सब स्वस्थ रहें ।

Fine Arts :-

Project Title: "Self-Portrait: Identity in Mixed Media"

Objective:

*Create a self-portrait that explores your identity using mixed media techniques, combining different materials and artistic methods to express various aspects of yourself.

Materials Needed:

*Canvas or thick paper (as a base)

*Acrylic paints, watercolors, or other paints

*Colored pencils, markers, or pastels

*Magazines, newspapers, or printed images (for collage)

*Glue

*Scissors

*Brushes, sponges, and other painting tools

*Optional: Fabric scraps, textured papers, found objects, or other embellishments.

Instructions:

1. Brainstorm and Sketch:

- Reflect on your identity. Consider aspects like your hobbies, cultural background, personality traits, and significant experiences. Sketch out a few ideas for your self-

portrait, thinking about how different media can represent different facets of your identity.

2. Prepare Your Base:

Choose a sturdy base such as a canvas or thick paper. This will support the various materials you'll be using.

3. Create the Background:

- Start by creating an interesting background. You can use acrylic paints or watercolors to paint a gradient, abstract design, or pattern that reflects your mood or personality. Let it dry before adding other elements.

4. Add Collage Elements:

Cut out images, words, or textures from magazines, newspapers, or printed materials that resonate with you. Arrange these on your background to form part of your self-portrait. Think about how these elements represent different aspects of your identity.

5. Paint and Draw:

- Use paints, colored pencils, markers, or pastels to add your portrait over the collage elements.

* May your holidays be auspicious. May you all be healthy and happy.