

DAV CENTENARY PUBLIC SCHOOL, PASCHIM ENCLAVE, NEW DELHI

HOLIDAYS HOMEWORK CLASS IX (SESSION 2023-24)



Wishing you a holiday season
filled with peace, joy and creativity.

Holiday season is the perfect time to relax, rejuvenate and reflect on the blessings in our lives, besides enhancing our skills. DAV Centenary Public School is continuously striving to facilitate lively learning and holistic development of its students. In the pursuit of the same, we have developed interesting and enriching learning for students.

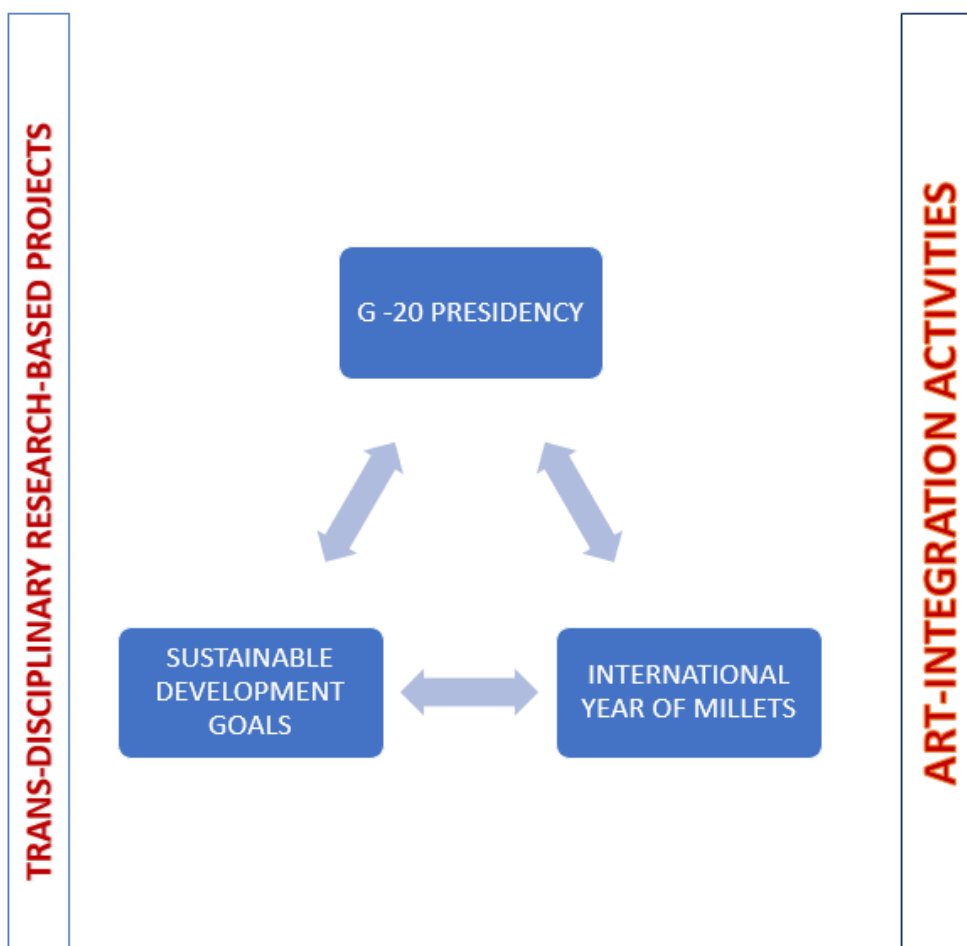
Here are few suggestions for the students:

- Spend quality time with family. Strengthen the bond with them.
- Help your mother in household chores.
- Play outdoor and indoor games.
- Stay fit, eat healthy and consume refreshing drinks to keep yourself hydrated.
- Watch news channels, sports channels and other useful channels/programmes. Watch English programmes.
- Read interesting books. Two amazing book links are shared for the students as under:
 - The Diary of a young girl by Anne Frank
 - Wings of Fire by APJ Abdul Kalam
(PDFs will be shared by Class Teacher in class groups)
- Complete your Holidays Homework as per the given instructions well in time.

- Trans-disciplinary research based project work has been given in Class IX based on themes mentioned below. This project work will be assessed and students will be given due credit for the same in Internal Assessment.
- Holidays Homework must be done on A4 size sheets (as per the colour scheme given below).

English – WHITE
Hindi – LIGHT BLUE
Sanskrit – ORANGE
Mathematics – YELLOW
Science – GREEN
Social Science – PINK
Moral Education - ORANGE

THEME FOR HOLIDAYS HOMEWORK



EDUCATION IS NOT THE LEARNING OF FACTS...

IT'S THE TRAINING OF MIND TO THINK....!!

- ❖ Vasudhaiva Kutumbakam, which translates to "One Earth, One Family, One Future," is the theme of **INDIA'S G20 PRESIDENCY**. It is inspired from the Maha Upanishad, an old Sanskrit scripture. The theme fundamentally highlights the importance of all life—human, animal, plant, and microorganism—as well as their interdependence on Earth and across the universe. The theme also exemplifies LiFE (Lifestyle for Environment), which highlights the importance of environmentally sustainable and responsible lifestyle choices, both at the individual and national level, in creating a cleaner, greener, and bluer future.



The G20 Presidency also heralds for India the start of "Amritkaal," a 25-year period commencing from the 75th anniversary of its independence on August 15, 2022, leading up to the centenary of its independence.

- ❖ SUSTAINABLE DEVELOPMENT GOALS (SDGs), were adopted by the United Nations in 2015 as a universal call to action to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity.



SDG FOR CLASS IX – CLEAN WATER AND SANITATION

- ❖ **INTERNATIONAL YEAR OF MILLETS :** Millets have been an integral part of our diet for centuries. In addition to a plethora of health benefits, millets are also good for the environment with low water & input requirement. With the aim to create awareness and increase production & consumption of millets, United Nations, at the behest of the Government of India, declared 2023 the International Year Millets.



ENGLISH

There is a noticeable difference between the cleanliness of Yamuna in Delhi and Radhanagar beach in Andaman Nicobar islands.

Draft a dialogue between the two water bodies.

Support the conversation with pictures, graphics or cartoons.

MATHEMATICS

TASK 1: Corals reefs are made up of colonies of hundreds to thousands of tiny individual coral called polyps. These marine invertebrates animals have hard exoskeletons made of calcium carbonate and sessile, meaning permanently fixed in one place. Polyps grow slowly forming different shapes and sizes depending on their species. Plot the points **A1, A2, A3, A4,.... A31** on the graph paper whose coordinates are given below. Join **A1, A2, A3, A4,.... A29, A30, A31** and **A1** with free hand in order. Identify and name the sea creature. Colour the creature and background using your creativity.



A1(0,8), A2(-2,7), A3(-3,5), A4(-2,3), A5(-4,2), A6(-5,2), A7(-8,4), A8(-6,1), A9(-5,1), A10(-7,-2),
 A11(-8,-3), A12(-7,-3), A13(-5,-2), A14(-6,-6), A15(-3,-2), A16(-2,-7), A17(0,-2),
 A18(2,-7),
 A19(3,-2), A20(6,-6), A21(5,-2), A22(7,-3), A23(8,-3), A24(5,1), A25(6,1), A26(8,3),
 A27(5,2), A28(4,2), A29(2,3), A30(3,5), A31(2,7).

TASK 2: Body size is an important ecological attribute of a fish, because length influences its ability to use habitats efficiently.

Varieties of fishes are found in Andaman and Nicobar Islands and Lakshadweep islands. List a few fishes and mention their lengths. Also, paste some COLOURED pictures of fishes.

The table given below shows the length (in mm) and the number of different varieties of fishes that were found in a particular sample location in the Arabian sea and Bay of Bengal. The island union territories Andaman and Nicobar Islands and Lakshadweep Island are in these water bodies.

Construct a histogram for the data given below. Use your creativity to fill the bars of histogram by sea creatures (example: salmon in first, tuna in third, butterfly fish etc.)

Length(in mm)	Number of fishes
250 – 300	50
300 – 350	125
350 – 400	250
400 – 450	275
450 – 500	225
500 – 550	150
550 – 600	75

TASK 3: Sanitation and clean drinking water is the basic necessity of human beings. This SDG goal 6 needs to be inculcated in our learning.

We all have water tanks in the shape of cylindrical or cuboidal water tanks for storage.

i) Calculate its dimension in nearest m, and find its volume.

ii) RO (Reverse osmosis)/ Aqua guard are implanted in our houses. Water from the tanks flows to RO/ Aqua guard and water flows can be expressed as $f(x) = 0.7x$, where x denotes the water (in litres).

Express the water consumption in your house and make a table for 7 days. Also, how much water is filtered out every day.

Day and Date	Water consumed	Water filtered out

iii) The water which is filtered out is stored by you. Express using a comic strip, the measure you take to use the filtered water.

Comic strip is one of the ways of expressing the idea with pictorial representation and

Ensure availability and sustainable management of water and sanitation for all:



words, which clearly depicts the situation. One of the examples is shown:

(Comic strip should contain at least TWO pages and divided into 4 - 6 parts depicting the information).

Each task is to be done on separate A4 size yellow coloured sheet.

SCIENCE

★ INTERNATIONAL YEAR OF MILLETS 2023

With the aim to create awareness and increase production and consumption of millets, the United Nations, at the behest of the Government of India, declared 2023 the International year of millets.

- Nutrition through Nutri-cereals-Students of class 9 are required to make a chart of nutritional value of different millets on A-4 size sheet supported with a picture collage of millets.

★ SDG-6 CLEAN WATER & SANITATION AND EK BHARAT SHRESHTHA BHARAT PROGRAMME

Access to water, sanitation and hygiene is a basic human right. Water is essential for health, poverty reduction, food security, peace and human rights, ecosystems and education. However, countries are increasingly facing growing challenges pertaining to water scarcity, water pollution, degraded ecosystems and lack of cooperation over transboundary water resources. By managing our water sustainably, we can better manage our production of food and energy and contribute to decent work and economic growth. Moreover, we can preserve our water ecosystems, their biodiversity, and take action on climate change.

- **To promote SDG-6 and EK BHARAT SHRESHTHA BHARAT PROGRAMME ,Students of class 9 are required to make a project report on the following guidelines-**

❖ **SDG-6**

- Students are required to pen down the Health and Social impacts of open defecation on the human population especially women. Make a collage with newspaper/magazine cuttings on steps taken by the Indian government to stop defecation

- Make a picture collage on the topic-**Easy and effective ways to stop water pollution.**

❖ **EK BHARAT SHRESHTHA BHARAT PROGRAMME**

- Public drinking water systems in Delhi use different water treatment methods to provide safe drinking water for their communities. Make a schematic coloured layout supported with pictures for the **water treatment methods.**
- ❖ **Surrounded by pristine beaches, lagoons and coral reefs, the Lakshadweep and Andaman-Nicobar islanders have for decades battled a shortage of clean water - a challenge facing many island inhabitants globally. Over the years, the sea's clear blue waters seeped into the islands' limited groundwater reserves, making every sip saline.**
- The low temperature thermal Desalination water treatment technology(**LTTD**) was successfully implemented at **Kavaratti in Lakshadweep** to address this problem. Students are required to prepare a schematic colored layout of **LTTD** supported with pictures .(**ROLL NO. 1- 25**)
- Individual and community **roof top rainwater harvesting** is an ideal decentralized system of providing safe drinking water in **Andaman and Nicobar islands**. Students are required to prepare a schematic colored layout of **roof top rainwater harvesting** supported with pictures .(**ROLL NO. 26 onwards**)

All work is to be done on A-4 size green coloured sheets.

SOCIALSCIENCE

- Collect information about the E-Ration card issued by the government of India. Also write a few lines about a program initiated by the Indian government on "One country One Ration card '.
- Ek Bharat Shrestha Bharat programme, aims to actively enhance interaction between people of diverse cultures living in different States and UTs in India, with the objective of promoting greater mutual understanding amongst them. This year Delhi is paired with Lakshadweep and Andaman and Nicobar Islands. Find information on formation of Lakshadweep islands and recent naming of different islands of Andaman and Nicobar with the help of map.
- Demographics comparison of Delhi and Andaman and Nicobar Islands on the basis of following:
 - Economy
 - Population Density
 - Sex - Ratio
 - Health and education policies and programs
- Sustainable development Goal 6: Ensure access to water and sanitation for all. Write a short write up on Causes of river pollution and Namami Gange Programme initiated by the Indian government.

All the above work is to be done on **PINK** A4 Size sheets

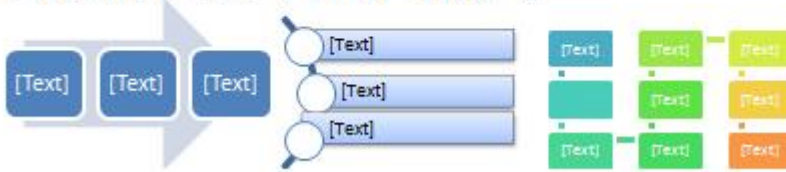
Sanskrit

1. सतत विकास - लक्ष्य अन्तर्गत शुद्ध जलस्वच्छतां च इति विषयमधिकृत्य दिल्लीनगरस्य अंडमान-निकोबारद्वीपस्य मध्ये नगर-द्वीपस्वच्छताविषये पञ्चपञ्चवाक्यानि लिखन्तु। अपि च द्वयोः जलसंरक्षणकथम्भवति इति विषयमधिकृत्य चित्रनिर्माणं कुर्वन्तु। (A4 size पत्रे)
2. प्रदत्तकार्यप्रपत्राणि कुरुत ।
3. एकाम् संस्कृतपत्रिकाम् चयन्तु ।

Hindi

शीर्षक : स्वच्छ जल एवं स्वच्छता

1. (क) दिल्ली एवं अंडमान और निकोबार में स्वच्छ पानी की समस्या
(ख) स्वच्छता के लिए मापदंड : विश्लेषण एवं वर्णन
(दिल्ली एवं अंडमान और निकोबार- तुलनात्मक अध्ययन)
2. कोलाज निर्माण : एवरेस्ट पर जाने वाले पर्वतारोहियों का



3. (क) रचनात्मक कौशल (पत्र लेखन): दिल्ली में रहने वाले मित्र का अंडमान में रहने वाले मित्र को यहाँ की जीवन शैली एवं अर्थव्यवस्था के विषय में बताते हुए पत्र ।

(ख) चित्र वर्णन :



निर्देश :

- समस्त कार्य ए-4 हल्के नीले रंग के कागज़ पर ही करेंगे ।
 - जहाँ छाया-चित्र की आवश्यकता हो वहाँ अवश्य चिपकाएँ ।
- समस्त कार्य प्रस्तुतिकरण, रचनात्मक एवं मौलिक अपेक्षित है ।

INFORMATION TECHNOLOGY

Design a presentation on the topic “**use of computers in daily life**” using openOfficeImpress or Microsoft PowerPoint.

ARTIFICIAL INTELLIGENCE

Make a project of AI on any of the SDGs. Follow the steps given in the class.

SEWA (Social Empowerment through Work Education & Action)

HOMEWORK - Eco Brick Activity:

TASK 1 - Be an Eco Warrior Prepare 1 Eco Brick and submit to your class teacher.

Procedure:

Take a 1 litre empty plastic bottle of any beverage and fill it up to its maximum capacity with waste plastic wrappers during your summer break and

Your brick is ready.

For reference see the picture enclosed



TASK 2 – COMPLETE YOUR SEWA PROJECT FILE AS PER INSTRUCTIONS GIVEN BY CLASS TEACHER