



HOLIDAY HOMEWORK 2020-21 **CLASS VII**

ENGLISH

OBJECTIVE: To help students gain conceptual knowledge and understand the synergy between education and culture underlying Unity in Diversity.

I Art Integrated Activity - Meghalaya is one of the "Seven Sister States" of North East India. Shillong's capital is also called "The Scotland of the East". Imagine you are Kalden Dorjee, working at a travel desk in a four-star hotel at Shillong. Your travel partner in New Delhi is organizing a tour to the state of Shillong. You are asked to design an e-Tourist Brochure of Shillong giving all relevant information sought by tourists visiting the state along with a six days itinerary to help them make it a memorable sojourn. The brochure should include the following:



- *How to reach the capital city of Meghalaya (mention the options of road and air travel)*
- *The climate at the time of visit and options of the accommodation available.*
- *Well known eateries offering varied cuisines*
- *Places of tourist interest. Attractive photographs of the tourist attractions and natural beauty of the state*
- *Special package tours to nearby places of interest. Shopping for handicrafts and souvenir.*

Refer to the link about how you can design the brochure - <https://youtu.be/TR30St9Ed3o>

II Creative Writing- Due to ongoing pandemic, it is evident that the world will have to learn to live with the Coronavirus. By adhering to social distancing norms and aggressive containment, we can fight the virus. However, there will be several changes in our lifestyle and work culture.

As the Chief Minister of Delhi, issue an appeal to the people in the form of a notice asking people not to crowd the markets, maintain social distance and wear masks during the ongoing festival season.

Skills Developed: Creativity, self-awareness, analytical and critical thinking.

Mode of Submission: Google Classroom

HINDI

'नीलकंठ' पाठ के आधार पर पाठ में आए किन्हीं 20 कठिन शब्दों का एक आकर्षक शब्दकोश तैयार कीजिए, जिसमें उनका उचित वाक्य प्रयोग भी किया गया हो। पाठ में आए ऐसे पाँच-पाँच शब्द भी छाँटकर लिखिए जिसमें उपसर्ग एवं प्रत्यय का प्रयोग हुआ हो।

संपूर्ण कार्य में अपनी कलात्मक अभिरुचि का परिचय देते हुए उसे अपनी उत्तर पुस्तिका में कीजिए तथा **गूगल क्लासरूम पर अपलोड कीजिए।**

इसके साथ ही छात्र E-Portfolio के अंतर्गत हिंदी विषय से संबंधित कार्यपत्रिका, विभिन्न गतिविधियों में प्राप्त प्रमाण पत्र, विशेष दिवस हेतु बनाए जाने वाले विभिन्न वीडियो में हिंदी-संबंधी अपना योगदान अपलोड करेंगे।

विशिष्ट उद्देश्य -

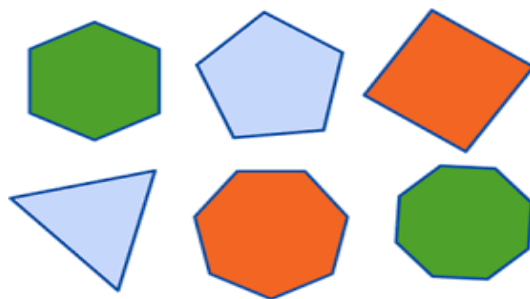
- पठित पाठ 'नीलकंठ' में आए बहुल तत्सम शब्दों से छात्रों का परिचय।
- शब्द ज्ञान भंडार में अभिवृद्धि।
- उपसर्ग एवं प्रत्यय की भाषिक संरचना से संक्षिप्त परिचय।
- छात्रों के कलात्मक पक्ष में अभिवृद्धि।

Mode of Submission: Google Classroom

MATHS

Symmetry is an important geometrical concept, commonly exhibited in nature and is used almost in every field of activity. Artists, professionals, designers of clothing or jewellery, car manufacturers, architects and many others make use of the idea of symmetry. You have already done **line symmetry**.

Project 1. Draw 4 regular Polygons and draw their lines of symmetry. Conclude the relation between number of sides and number of lines of symmetry. To be done on half of a chart paper.



We can find one more type of symmetry in objects, namely **Rotational Symmetry**. To learn more about it see this YouTube video link: <https://www.youtube.com/watch?v=s4tS-ZmpJfw>

Have you seen snow fall on a cold winter day? We can build snowmen, make snow angels, and start a snowball fight! Snowy days can be a lot of fun. Have you ever heard that no two snowflakes are exactly alike? Well, that isn't exactly true. However, the chance of finding twin snowflakes is very, very, very low. Scientists say the chances of two snowflakes being exactly alike are about 1 in 1 million trillion.

That's a one followed by 18 zeros, so it's very unlikely! Meteorologists think there are 1 trillion, trillion, trillion (a one with 36 zeros!) types of snowflakes. Observe designs of different snowflakes. You will find that they have a rotational symmetry of order 6.

Project 2. Make 4 different snowflake designs (use white colour paper) and paste them on half of a chart paper (colour of your choice).

To find ideas on making snowflakes, go through the link:

<https://www.youtube.com/watch?v=rtkdNH6YjOo>



Mode of Submission: Google Classroom

SCIENCE

TOPIC: WASTEWATER MANAGEMENT/WIND, STORMS AND CYCLONES



Prepare a ppt on **Wastewater Management** in Noida. Mention the need of wastewater recycling for sustainable future.

OR

Prepare an article/PPT on the natural disaster (**Earthquake**) hitting the zone you live in. Also mention the need of awareness plan required to overcome it.

Mode of Submission: Padlet

Case Study – TAWA MATSYA SANGHA



TAWA RIVER



TAWA DAM



FISHERMEN LOSE THEIR LIVELIHOOD



FORMING SANGHA TO GET BACK THEIR RIGHTS

All students to open the given link to understand the case study- <https://youtu.be/K0ML69sAGyY>

Now complete the following:

- (i) On a political map of India locate the Mahadeo hills in Madhya Pradesh from which the Tawa river originates.
- (ii) Give any three benefits of the Tawa dam for the villagers in that region. (Write in 60 – 80 words.)
- (iii) The Tawa Matsya Sangha was formed in 1994. Why was this organization formed? (Write in 20 words.)
- (iv) The Tawa Matsya Sangha was successful in 1997. How was this success achieved? (Write in 60 – 80 words.)
- (v) Draw a suitable poster which could be used by the fishermen of the Tawa Matsya Sangha to convey their demand to the government.

Use an A4 sheet for the poster.

Note: Q (ii), (iii) & (iv) to be done in a ruled A4 sheet. Prepare a file for the complete work.

Mode of Submission: Padlet

SANSKRIT

प्र01 'कोरोना कालखण्ड' में प्रकृति में हुए सकारात्मक परिवर्तन पर एक पोस्टर बनाएँ एवं उनके नाम संस्कृत में लिखें।

प्र02 शब्दरूप व धातुरूप उत्तरपुस्तिका में लिखकर याद करें-

शब्दरूप- पितृ, नदी, गुरु, इदम् अस्मद्, युष्मद्

धातुरूप- गम्, पठ्, अस्, भू (लट्, लृट्, लङ्, लोट्, विधिलिङ् लकार में)

प्र03 पठित पाठों का पुनराभ्यास करें व कार्यपत्रिका को उत्तरपुस्तिका में हल करें।

अधिगम परिणाम:-

- शब्द निर्माण प्रक्रिया का ज्ञान व शब्द भंडार में वृद्धि।
- संस्कृत लेखन कौशल का विकास।
- भाषा संबंधी व्याकरणिक ज्ञान।
- चिंतन कौशल का विकास।

Mode of Submission: Google Classroom

FRENCH

Décrivez quelques monuments français et collez leur image dans votre cahier.

Mode of Submission: Google Classroom



INFORMATION TECHNOLOGY

Prepare a **Webpage** using Adobe Spark on **Protecting Yourself against Potential Threats in the Cyber World** and send it in Google Classroom. Your webpage should be precise and informative.

Learning Outcome- Awareness of Cyber threats and ways to protect against them

Skill- Increase in student's creativity skills

Mode of Submission: Google Classroom



ARTIFICIAL INTELLIGENCE

A smart city is an urban development vision to integrate Information and Communication Technology (ICT) , AI & Internet of Things (IoT) Technology in a secure fashion to manage a city's assets. These assets include local departments' information systems, schools, libraries, transportation systems, hospitals, power plants, water supply networks, waste management, law enforcement, and other community services.

Considerations for the Smart City:

- *Pedestrian Detection*
- *Lane tracking*
- *Automatic pedestrian crossings*
- *Smart transport*
- *Automated hospitals*
- *Security*
- *Automated schools*
- *Automated hotel check-ins*
- *Automated supermarkets*
- *Use of cameras in the Smart City*
- *Number of devices connected*



Students are free to use their imagination, and add more features to the above list, and visualize their smart city. Design your "Smart City" implementing all AI based features to make it futuristic and greener. Present your plan as a webpage created using spark.adobe.com and include the following:

- *Give the name of your Smart City.*
- *Explain the features of your Smart City.*
- *Do you think using all IoT enabled things will keep your data secure? Add Data Protection features to your Smart City.*
- *Highlight different security considerations.*

Students will share their website link on the comment box of Google Classroom.

Learning Outcomes: Students will be able to

- Think about a smart city with AI enabled features
- Understand the scenario and required skill sets for future
- Design a webpage on their own

Skills:

- Creativity
- Imaginative Thinking
- Learn a new tool – Webpage Designing

Mode of Submission: Google Classroom

ATAL TINKERING LAB

Identify a problem in your society or community around you and propose a solution.

The possible solutions can be anything that are economical and easily implementable.

1 - MIX AND FIX - Kabaad Se Jugaad:

Students are supposed to show their skills of reusing the waste material where they can re-use any old item from their household items.

2 – Using Electronics to solve the problem.

3 – Design a Game or Application to Solve the problem.

4 – Robotics as a solution

FIVE STEPS TO INNOVATION

Design thinking outlines a process of five steps to arrive at an innovative solution to a problem:

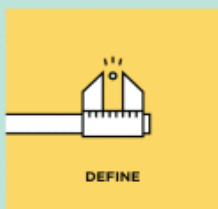


EMPATHY

1.

EMPATHY:

Gather information through interviews, observation, or first-hand experience. Keep an open mind and just listen.

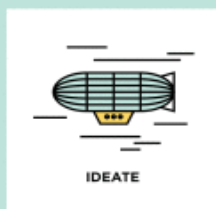


DEFINE

2.

DEFINE:

Narrow it down and describe the specific problem you are trying to solve.



IDEATE

3.

IDEATE:

Working within a time limit, hold a blue-sky brainstorming session. No idea is too improbable to write down.

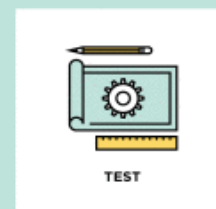


PROTOTYPE

4.

PROTOTYPE:

Using whatever materials are at hand, quickly throw together models of your top ideas.



TEST

5.

TEST:

Take your prototypes to the end users and listen to their honest feedback, then repeat steps 4 and 5.

OR

1 - Wastewater management across Rural/Agri belts and Urban settlements:

There has been a significant decrease in [per-capita](#) water supply in the country over the past few years due to the rising speed of urbanization while an estimated 70% of wastewater goes untreated. To ensure water supply availability calls for effective monitoring, utilization, and recycling of wastewater.

What is Greywater?



Clean Water

*Springs, wells,
purified water,
city water*



Greywater

*Used water from
sinks, showers,
bath and laundry,
without harsh
chemicals*



Blackwater

*Water from
toilets or containing
harsh chemicals*

Solutions are invited for:

- Innovative and low-cost management of [greywater](#) at the source.
- Detection and prevention of drainage in water bodies.

2 - Design a Game or an application to make people aware of Fake News.

Fake News Detection: As information gets passed on social media, it becomes difficult to discern its authenticity and may mislead people.



THE BEST HOLIDAY HOMEWORK WILL GET AN ATTRACTIVE SURPRISE!!!!

Mode of Submission: Google Classroom

NOTE: Students/Parents are requested to contact the Class Teacher/Subject Teacher in case of any query regarding Holiday Homework.