

SUBJECT : ENGLISH

TOPIC: COLOURFUL PATTERNS AROUND US

Patterns in nature are visible regularities of form found in the natural world. These patterns recur in different contexts and can sometimes be modelled mathematically. Natural patterns include symmetries, trees, spirals, meanders, waves, foams, tessellations, cracks and stripes.

In literature, these patterns, colours, shapes, symbols become more than ordinary visual representations. They hold significant symbolic and cultural representation. They are used to represent identity, values, emotions and shared history. In popular literary texts like the Harry Potter series, we find four different house crests or logos that represent the core values and characteristics of the four houses. Each crest featured a symbolic animal and house colour that further emphasized these traits.



THE PROJECT -

Design a logo/ crest for **any 1** of the special activity clubs of your choice. The logo will be designed using colours, shapes, patterns and letters. The design must be original and neatly illustrated. It should represent atleast one core value or characteristic of the club. The logo must be accompanied with a small description stating the importance of the design and what it represents.

LEARNING OBJECTIVE:

1. To identify and apply basic design principles.
2. To understand the significance of visual communication.
3. To enhance creativity and critical thinking.

LEARNING OUTCOME:

1. Independent research work
2. Collaboration
3. Awareness of non-verbal communication among all.

PROJECT FORMAT

- The project must be done in groups.
- Each group will present a design of their logo and its description.
- Each design should be an integration of different elements like colours, shapes, letters, patterns or atleast any three of them.
- Each design must reflect atleast one core value or characteristics of the chosen club either through colour, shape, patterns or words.
- Each description of the logo must describe the logo, its importance and the motive behind the choice of colours, shapes etc.

RUBRICS FOR EVALUATION

Parameters	5	4	3	2/1
Content and relevance (5)	Ideas are original and insightful Design communicates the message/value or identity clearly and creatively Relevant imaging	Ideas are original Design generally communicates the intended message. Concept is understandable Relevant imaging and aesthetics	Ideas are original Logo attempts to communicate the message. Concept is understandable Slightly irrelevant imaging	Ideas are original Logo does not effectively communicate the message. The connection between the design and message is weak. Irrelevant imaging
Clarity of thought and language (5)	Proper explanation of elements used Description aptly communicates the idea and is in harmony with the design Significance well justified	Proper explanation of elements used Description aptly communicates the idea and in harmony with the design Significance was overall justified	Proper explanation of elements used Description communicated the overall idea well Lacks proper justification of the significance	Some attempt has been made to properly explain the elements. Description lacks proper communication of ideas. Lacks proper justification of the significance
Neatness , visual appeal and aesthetics (5)	Design is neat with organised structures without unnecessary ornamentation Use of legible fonts. Design is visually striking, balanced, and aesthetically	Design is neat with organised structures Legibility could be improved. Design is visually striking, balanced, and aesthetically pleasing. Use of colour, shape, and	Design is overall neat with few organised structures Legibility could be improved. Design has some visual appeal but may lack balance or refinement in the use of colour, shape, or typography	Design lacks neatness with unorganised structures. Design is visually unappealing, unbalanced, or uses colour, shape, and typography ineffectively

	pleasing. Use of colour, shape, and typography is highly effective	typography is highly effective		
Use of colours/shapes (5)	Colour palette is thoughtfully chosen and shapes are effectively used and contribute to the design.	Colour palette is generally appropriate. Shapes are overall contributing to the design	Colour palette is somewhat inconsistent and the shapes used somewhat contribute to the design.	Colour palette is inappropriate or clashing The shapes do not contribute to the design and are ineffective.

SUBJECT : MATHEMATICS

TOPIC: COLOURFUL PATTERNS AROUND US

Learning Objectives:

Nature and Mathematics are related to each other; we can see representation of different mathematical patterns in nature. Students will explore various patterns visible in nature, such as **Symmetry, Spirals, Fibonacci sequence, Fractals, Tessellations, Waves, Golden ratio etc.**

Students will be divided into six groups and each group will research on two Mathematical patterns and show how they are related to Mathematics.

Group -1 : Symmetry and Tessellations

Group -2 : Spirals and Fibonacci sequence

Group – 3 : Fractals and Golden ratio

Group – 4 : Waves and Spirals

Group – 5 : Fibonacci sequence and Symmetry

Group – 6 : Golden ratio and Waves

Each group has to work on the following questions:

- | | |
|---|-----------|
| 1. Give description of both of the patterns. | 2.5 + 2.5 |
| 2. Mathematical explanations of both of the patterns. | 2.5 + 2.5 |
| 3. Examples with diagrams of both of the patterns. | 2.5 + 2.5 |
| 4. Explain how the patterns are related to nature. | 2.5 + 2.5 |

Following links will help you:

<https://owlcation.com/stem/Astounding-Ways-How-Mathematics-is-a-Part-of-Nature->

<https://mathematicalexplorations.co.in/exploring-patterns-in-nature/>

Learning Outcome:

Students will be able to understand the how different patterns are also visible in nature. Nature is systematic as those pattern.

RUBRICS FOR EVALUATION

CATEGORY	GREAT WORK (4)	GOOD WORK (3)	SATISFACTORY (2)	COULD BE BETTER (1)
TOPIC CONTENT – ACCURACY (4)	Content regarding patterns are well explained and	Content regarding patterns are well explained and	Explanation needs improvement 80 – 89% of the facts are accurate	More points need to be added Less than 80% of

		all facts are accurate	90 – 95% of the facts are accurate		the facts are accurate
	WRITING- VOCABULARY EDITING- LANGUAGE (4)	Use of mathematical terms in the proper way Presentation is free from grammatical errors	Use of few mathematical terms in the proper way The presentation may have one or two grammatical errors	Less use of mathematical terms in the proper way The presentation may have few grammatical errors	No Use of mathematical terms in the proper way There are many grammatical errors
	DIAGRAMS OR PICTURES (4)	Diagrams or pictures go well with the text, explanations are correct and there is good mix of text and graphics	Diagrams or pictures go well with the text, explanations are correct but they are inappropriately sized, too small or hard to read	Diagrams or pictures go well with the text, but explanations are incorrect they are too few and the project seems text heavy.	There are no Images or pictures or they do not go with the topic.
	OVERALL PRESENTATION (4)	The presentation is exceptionally attractive, in terms of design, layout and neatness.	The presentation is attractive, in terms design, layout and neatness.	The presentation is acceptably attractive, though it may be a bit messy.	The project is distractingly messy or very poorly designed.
	USE OF PROPER MATHEMATICAL EXPLANATION (4)	Mathematical explanations are properly done.	Mathematical explanations are properly done but all steps are not shown	Mathematical explanations are not properly done and all steps are not shown	Mathematical explanations are not properly done and all steps are not shown. Needs a lot of improvement in terms of presentation and neatness.

SUBJECT : SCIENCE

TOPIC: PATTERNS IN NATURE

Patterns, repeating or ordered arrangements are abundant in Science and can be observed in various natural phenomena and human made systems. These patterns can be used to classify objects, predict events and explain scientific concepts.

LEARNING OBJECTIVES:

Students will learn about:

- Types of patterns in our daily life.
- How patterns help the plants and animals to survive.
- Man-made patterns around us in fabric.
- To draw Tessellation pattern.

1. Give 4 examples of different types of patterns in our daily life. Give examples of each along with relevant pictures and diagrams. [At least 2 diagrams to be drawn].
2. How do patterns in the leaves of the plants, like venation influence their ability to absorb sunlight?
3. What is the relationship between the Fibonacci sequence and patterns found in the arrangement of petals on a flower or in the shape of a nautilus shell? Explain with diagram.
4. How do patterns in animal coats or markings, such as stripes on a tiger or spots on a zebra serve as camouflage or communication signals?
5. How do patterns in textiles affect their appearance and use? Stick one such fabric to explain your answer.
6. Draw one Tessellation pattern in nature.

Divide yourselves into 6 groups to do the project. Submit your project with diagrams, pictures, well researched contents and neat presentation.

LEARNING OUTCOMES:

Students to learn about

- Importance of different types of patterns for the survival of plants and animals in nature.
- Influence of patterns in nature on our daily life.
- Drawing of patterns.
- Correlate Mathematical patterns with nature.

RUBRICS FOR EVALUATION

Parameters	5	4	3	2/1
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Content (5)	Applicable to Theoretical knowledge and all facts are correct.	Applicable to Theoretical knowledge and all facts are correct. One or two factual errors	Applicable to Theoretical knowledge and all facts are correct. Few factual errors.	Applicable to theoretical knowledge and all facts are not at all relevant to the topic.
Presentation (5)	Excellent document layout, with effective use of colors, text, and images	Overall impact of the project is attractive and appealing to the viewers. Students are well prepared. Teamwork is visible. Project is compiled up to the mark.	Overall impact of the project is quite appealing to the viewers. Students are well prepared. Teamwork is visible. Project is fairly compiled.	Some attempt has been made to make the presentation appealing to the viewers. Students are well prepared. Teamwork is visible. Project is not compiled up to the mark.
Video/Photographs/Flyer/performance relevant to the topic (5)	Excellent Presentation includes Video/Photographs/Flyer/performance relevant to the topic	Adequate Video/Photographs/Flyer/performance relevant to the topic	Adequate Video/Photographs/Flyer/performance relevant to the topic missing	Video/Photographs/Flyer/performance relevant to the topic are not clear . They are irrelevant to the topic.
Team Work (5)	Excellent collaboration	Satisfactory collaboration	All participants did not collaborate effectively	Team work was unsatisfactory.

SUBJECT : HISTORY

TOPIC: COLOURFUL PATTERNS AROUND US

Project Introduction

India is a land of diverse cultures, traditions, languages, and lifestyles. Yet, despite these differences, we are united as one nation. This project aims to help students understand, appreciate, and present the unique diversity of India in different aspects of life like food, clothing, festivals, and epics.

LEARNING OBJECTIVES:

- To develop awareness about the cultural diversity of India.
- To recognize the similarities that bind people across regions.
- To work collaboratively in teams and enhance presentation skills.

- To connect textbook knowledge with real-life observations and experiences.

Format of Submission

Each group will submit their project in the following format:

- **Project File or Scrapbook** with the following sections:
 - Cover Page with Group Name & Topic
 - Table of Contents
 - Research Content (written and visual)
 - Group Activity Documentation (photos, notes, designs)
 - Bibliography (mention books, websites, sources used)
- **Presentation** (5–7 minutes per group):
 - Each member must speak briefly

Note: Creativity and originality will be appreciated!

Group Topics, Activities, and Outcomes

Group 1: Food of India

Activities:

- Collect information on traditional food from different states (e.g. Punjab, Kerala, Gujarat, Assam, etc.).
- Display a map with regional cuisines.
- Create a mini "Food Menu" booklet or chart.

Learning Outcomes:

- Students will identify regional food diversity.
- Understand how geography and culture influence eating habits.

Group 2: Textile and Clothing

Activities:

- Explore traditional clothing from different states (like sarees from Tamil Nadu, phiran from Kashmir, lungi from Kerala, etc.).
- Make paper cutouts in regional clothes.
- Describe materials used (cotton, silk, wool) and climate influence.

Learning Outcomes:

- Students will understand the link between climate, tradition, and clothing.
- Appreciate India's rich textile heritage.

Group 3: Festivals of India

Activities:

- Select festivals from different religions and regions (Diwali, Eid, Pongal, Bihu, Christmas, etc.).
- Present how they are celebrated (rituals, food, dress, etc.).
- Make a poster to spread the festival message among people of diverse backgrounds.

Learning Outcomes:

- Students will understand religious and cultural diversity.
- Learn the values of harmony and respect for all communities.

Group 4: The Epics of India

Activities:

- Discuss famous Indian epics like Ramayana and Mahabharata.
- Present short stories or scenes from the epics (in skit or comic form).
- Explore how these epics influence art, festivals, and values.

Learning Outcomes:

- Students will understand how stories and literature unify people.
- Learn moral values from traditional tales.

RUBRICS FOR EVALUATION (Out of 10 marks)

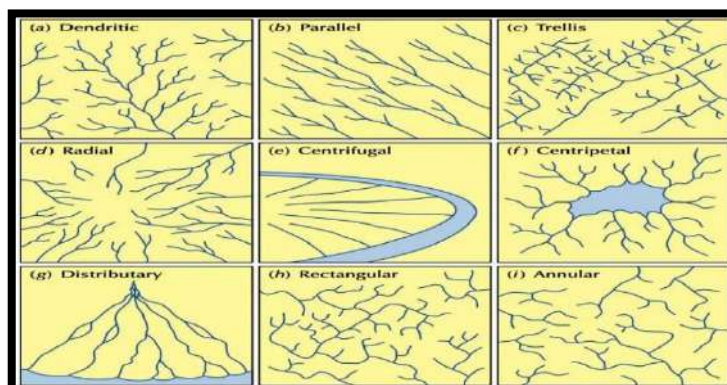
• Criteria	Excellent (2)	Good (1.5)	Satisfactory (1)	Needs Improvement (0.5 or below)
1. Content & Research	Thorough, relevant, and well-explained	Mostly accurate, some depth	Basic content with few details	Limited or off-topic information
2. Creativity & Presentation	Very creative, visually appealing, well-organized	Neat and engaging	Simple and average effort	Poor presentation or unclear visuals
3. Teamwork & Participation	All members actively contributed	Most members involved	Uneven contribution	Minimal collaboration or effort
4. Understanding & Explanation	Excellent clarity and confidence	Mostly clear with minor help	Some hesitation or confusion	Weak or unclear understanding
5. Bibliography & Sources	All sources listed properly	Most sources mentioned	Few or unclear references	No sources mentioned

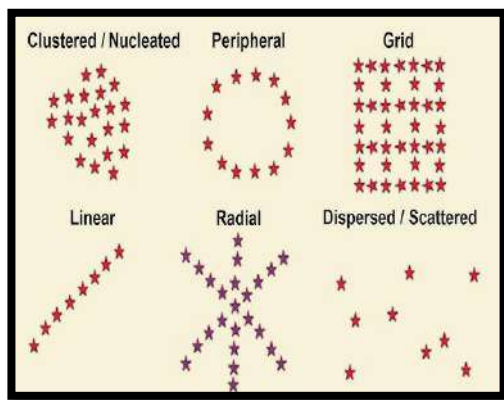
SUBJECT : GEOGRAPHY

TOPIC: COLOURFUL PATTERNS AROUND US

Patterns in nature are visible regularities of form found in the natural world. These patterns recur in different contexts and can sometimes be modelled mathematically. Natural patterns include symmetries, trees, spirals, meanders, waves, foams, tessellations, cracks and stripes.

Geographic patterns are the ways in which features, both natural and human-made, are distributed across the Earth's surface. These patterns can be observed in things like climate zones, biomes, settlement patterns, and ocean currents. Understanding these patterns and colours helps geographers and others to analyze and predict how things are spread out and how they interact.





PROJECT FORMAT:

- ✓ Project need to be done in groups.
- ✓ Support the project with relevant pictures.
- ✓ Students will make a PowerPoint presentation (maximum 8 slides including cover page, acknowledgement, index, content and bibliography)

- **GROUP 1 and 4: Climate patterns:** Explore patterns of climate and weather in different regions in India, including temperature, precipitation, winds and seasonal changes. (ANY FOUR)
- **GROUP 2 and 5: Population settlement patterns:** Analyze population settlements and migration patterns in different areas in India.(ANY FOUR)
- **GROUP 3 and 6: Land use patterns-** Investigate how land is used in different areas, such as agricultural, urban, rural and wasteland areas in India.
(ANY FOUR)

Analyze the geographical significance of the patterns and colours you observed and find out the relationship between natural and human-made features, the impact of environmental factors (e.g. climate, soil, topography) on the cultural and social environment.

SUBJECT INTEGRATION: Botany, Zoology, Life-skills, Installation Art, Political Science, Economics, and English.

Learning Objectives:

1. Students will identify and describe different colours and physiography.
2. Students will analyze the impact of human activity on colours and patterns of the society.
3. Students will be able to create a colour map to show the location and distribution of colours in their environment.

4.Students will be able to present their findings and ideas about colours and patterns in their environment through written and visual presentations.

Learning Outcomes:

- 1.Pattern Recognition: To identify and describe different patterns found in nature and human-made environments, including geometric and organic patterns.
2. Thinking and Analysis:To analyze the significance of colours and patterns in their environment, including their relationship to natural and human-made features.
- 3.Communication Skills: To effectively communicate their findings and ideas about colours and patterns through written and visual presentations.
- 4.Collaboration and Teamwork Skills: To work collaboratively with others to explore and learn about colours and patterns in the environment.

Reference link:-

https://www.terramai.com/blog/patterns-in-nature-and-built-environment/?srsId=AfmBOop5nU1sE9PnR5ax3_NRThEBt7sbt2aaq422a6YvAICpYkY4z6NT

<https://study.com/academy/lesson/analyzing-geographic-distributions-patterns.html>

<https://www.sciencedirect.com/science/article/pii/S1470160X23011597>

<https://www.sciencedirect.com/science/article/abs/pii/S0895981119301300>

<https://www.nature.com/articles/s41559-021-01616-8>

<https://education.nationalgeographic.org/resource/all-about-climate/>

<https://gpres.weebly.com/settlement-patterns.html>

<https://education.nationalgeographic.org/resource/all-about-climate/>

<https://pwonllyias.com/udaan/land-resources/>

RUBRICS FOR EVALUATION

Parameters	4	3	2	1
Content (4)	Applicable to Theoretical knowledge and all facts are correct.	Applicable to Theoretical knowledge and all facts are correct. One or two factual errors.	Applicable to Theoretical knowledge and all facts are correct. Few factual errors.	Applicable to theoretical knowledge and all facts are not at all relevant to the topic.

Presentation (3)	-	Overall impact of the project is attractive and appealing to the viewers. Students are well prepared. Teamwork is visible. Project is compiled up to the mark.	Overall impact of the project is quite appealing to the viewers. Students are well prepared. Teamwork is visible. Project is fairly compiled.	Some attempt has been made to make the presentation appealing to the viewers. Students are well prepared. Teamwork is visible. Project is not compiled up to the mark.
Graphics/Photographs/Charts/Relevance to the topic (2)	-	-	Presentation includes relevant photographs/charts/diagrams.	Graphics & Chart are not clear. They are irrelevant to the topic.
Team Work (1)	-	-	—	Independent research work and collaboration. Tried to adapt the new technology.

SUBJECT : COMPUTER SCIENCE

TOPIC: BINARY GRID – HOW COMPUTERS USE BINARY TO CREATE IMAGES

LEARNING OBJECTIVE: Students will be able to:

- Understand the basic language of Computer- Binary
- Learn the concept of Off and On signal in digital devices
- How computers store black-and-white images as binary code.

LEARNING OUTCOME: After completing the project, students will:

- How binary is used to represent images.
- That 1s and 0s can create art!
- How to convert binary numbers into decimal.
- That programming and art can go hand in hand!
- Later understand the conversion from binary to decimal number in their regular classes

Introduction

Computers do not understand images, sounds, or words the way humans do. They only understand **binary language**, which uses two digits: **0 and 1**.

Everything we see on a screen—whether it's a picture, video, or text—is stored in **binary format**. A **Binary Grid** helps us understand how simple images can be made using only 0s and 1s, just like computers do!

This project connects foundational computing with visual creativity. It introduces students to binary encoding, image storage, and logical thinking in a fun and engaging way.

What is a Binary Grid?

A **Binary Grid** is a table of squares (pixels) where:

- **1 = ON (Black or coloured square)**

- **0 = OFF (White or blank square)**

This is similar to how **monochrome bitmaps** (black-and-white digital images) are stored in computers. Each square or "pixel" has just two states: on or off, represented in binary.

Example Binary Grid – Smiley Face (8x8)

Binary Code row Wise

0	0	1	1	1	1	0	0	00111100
0	1	0	0	0	0	1	0	01000010
1	0	1	0	0	1	0	1	And so on..
1	0	0	0	0	0	0	1	
1	0	1	0	0	1	0	1	
1	0	0	1	1	0	0	1	
0	1	0	0	0	0	1	0	
0	0	1	1	1	1	0	0	

Here is an 8x8 binary grid that forms a **smiley face**:

Tip: The 1s have been coloured to see the face come alive!

Design Your Own Binary Grid

- Make a table of 10x10 as given below to make your own binary image (like a heart, letter, animal, or an emoji) using 0s and 1s.
- Use any colour for 1s and no colour for 0s.
- Write the binary code for each row as shown above.
- Each group must present 5/6 images (depending on the number of group members).
- Each group member must produce ONE unique image.
- All 5/6 images must be neatly placed in a channel file properly labelled.

Binary Grid Template (10x10)

Conclusion

Binary numbers are not just about math—they are the building blocks of everything digital. From creating pixel images to storing data, binary is used everywhere. With this project, I learned how **art and code** can work together through **Binary Grids**.

RUBRICS FOR EVALUATION

Criteria	Excellent (5)	Good (3)	Satisfactory (2)	Needs Improvement (1)
Creativity and neatness(5)	Very neat and artistic work	Good presentation	Average effort shown	Poorly presented
Content Accuracy(5)	Facts are accurate and well written	Minor errors	Some factual errors	Mostly incorrect or missing
Individual Contribution(5)	Each student completed their part excellently	Good individual effort	Uneven contribution	Lacking or incomplete
Group Presentation(5)	Very well organized and explained	Well organized	Somewhat organized	Lacked coordination

Resource Link-

<https://www.teachwithict.com/binary-representation-of-images.html>

<https://code.org/curriculum/course4/17/Teacher>

SUBJECT- HINDI 2ND LANGUAGE

विषय- रंगों और आकारों की दुनिया

रंगों और आकारों का हमारे जीवन में बहुत महत्व है। ये न केवल हमारी आँखों को खुशी देते हैं, बल्कि हमारी भावनाओं को भी व्यक्त करते हैं। जैसे पीला रंग खुशी, हरा रंग शांति और लाल रंग ऊर्जा का प्रतीक होता है। उसी प्रकार हिन्दी साहित्य में भी रंगों और आकारों का गहरा महत्व है, जिनका प्रतीकात्मक रूप से जीवन के अलग-अलग पहलुओं से संबंध होता है। जैसे 'रामचरितमानस' में पुष्प और पत्तियाँ प्रेम और भक्ति के प्रतीक हैं। कवि रवीन्द्रनाथ ठाकुर के काव्य में भी रंगों का महत्वपूर्ण स्थान है, जहाँ प्रकृति के रंग-बिरंगे रूप मानव जीवन के आनंद और दुखों को व्यक्त करते हैं। ऐसे ही, किन्हीं चार ऋतुओं का उल्लेख करते हुए हिन्दी साहित्य के चार कवियों की कविताओं का सचित्र पॉवरपॉइंट प्रस्तुति तैयार कीजिए, जिसमें रंगों और आकारों के विविध रूपों का प्राकृतिक सौंदर्य पर मनमोहक प्रभाव पड़ता हो।

आवश्यक निर्देश:

प्रत्येक कक्षा को 6 समूहों में विभाजित किया जाएगा।

LEARNING OBJECTIVES:

- रंगों और आकारों के महत्व के साथ प्राकृतिक सौंदर्य में ऋतुओं के प्रभाव को जानना।
- हिन्दी साहित्य में रंगों और आकारों के प्रतीकात्मक महत्व के साथ ऋतुओं के वर्णन में कवियों के दृष्टिकोण को जानना।
- प्राकृतिक सौंदर्य के साथ कला का संबंध तथा कविता के माध्यम से रंगों और आकारों की प्रतीकात्मकता को पहचानना।
- स्थितियों की परख तथा उपयुक्त भाषा-कौशल का विकास।

LEARNING OUTCOME:

- रंगों और आकारों के महत्व को पहचानने तथा ऋतुओं में परिवर्तन का निरीक्षण करने में सक्षम हुए।
- हिन्दी साहित्य में रंगों और आकारों की प्रतीकात्मकता की पहचान करने तथा प्राकृतिक सौंदर्य और ऋतुओं के बीच संबंध को समझने में सक्षम हुए।
- कविता के माध्यम से भावनाओं और जीवन के पहलुओं को व्यक्त करने तथा विविध ऋतुओं के प्राकृतिक तत्वों को पहचानने में सक्षम हुए।
- स्थितियों की परख तथा उपयुक्त भाषा-कौशल का विकास हुआ।

RUBRICS FOR CLASS- VI

मानदंड	5	4	3	2
विषय-वस्तु का प्रभावी और सृजनात्मक वर्णन (5)	विषय सामग्री से जुड़े तथ्यों पर गहरा शोध और लेख में सटीक एवं विषयानुरूप वर्णन भूमिका और निष्कर्ष के साथ है।	एक या दो तथ्यात्मक त्रुटियों के अलावा अधिकांश तथ्य सही एवं विषयानुरूप है। भूमिका और निष्कर्ष त्रुटियों के साथ है। प्रश्नोत्तर से पहले भूमिका स्पष्ट नहीं थी।	कुछ तथ्य विषयानुरूप है पर तीन से अधिक त्रुटियाँ पाई गई हैं।	प्रयुक्त लेखों में विषय सामग्री स्पष्ट नहीं है।
तकनीक एवं इंटरनेट संसाधनों का रचनात्मक प्रयोग एवं चित्र संकलन (5)	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, तस्वीरों का अच्छा उपयोग।	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, तस्वीरों का कुछ उपयोग।	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, तस्वीरों का कम उपयोग।	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, तस्वीरों का उपयोग नहीं किया गया।
भाषा का प्रयोग (5)	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी त्रुटियाँ न होना। सहज एवं बोधगम्य भाषा का उपयुक्त प्रयोग।	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी कुछ ही त्रुटियों का होना।	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी त्रुटियों के कारण भाषा की उपयुक्तता का अभाव पाया जाना।	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी त्रुटियों के कारण विषयानुसार भाषा का प्रयोग न हो पाना।
समग्र प्रस्तुति (5)	परियोजना का समग्र प्रभाव रोचक और आकर्षक।	परियोजना का समग्र प्रभाव ध्यान आकर्षण के लिए पर्याप्त।	परियोजना की समग्र प्रस्तुति को आकर्षक बनाने के लिए कुछ ही प्रयास किया गया।	समग्र प्रस्तुति को रोचक बनाने के लिए विद्यार्थी ने किसी प्रकार का प्रयास नहीं किया।

Subject: Bengali 2nd Language
Topic: Colourful Pattern around us

পরিয়ोजना কার্যের উদ্দেশ্যঃ

- ভারতের পরিবেশগত বৈচিত্রকে জানা ও তার নানা বিষয়ে সচেতন হওয়া
- সৃজনশীলতার বিকাশ
- ভাষাশৈলীর বিকাশ
- ব্যবহারিক প্রয়োগক্ষমতার বৃদ্ধি
- ভাষার ব্যবহার ও বিচারশক্তির বিকাশ

আমরা এমন এক পৃথিবীতে বাস করি যেখানে রঙ এবং সুন্দর নকশার ছোঁয়া আছে! আমরা প্রকৃতি, পোশাক, ভবন, এমনকি স্কুলের বই যাই দেখি না কেন, আমাদের চারপাশে বিভিন্ন ধরনের নকশা এবং রঙ দেখতে পাই। নকশাগুলি জিনিসগুলিকে আকর্ষণীয় এবং মজাদার করে তোলে। এগুলি আমাদের আকার চিনতে, জিনিসগুলিকে সংগঠিত করতে এবং এমনকি শব্দ ব্যবহার না করে গল্প বলতে সাহায্য করে।

জেব্রার উপর ডোরাকাটা দাগ থেকে শুরু করে মেঝেতে টাইলস এবং উৎসবের সময় রঙেলির নকশা পর্যন্ত, নকশা সর্বত্রই বিদ্যমান। কিছু নকশা পুনরাবৃত্তি হয়, কিছু পরিবর্তিত হয় এবং কিছু আমাদের অবাক করে! এই প্রকল্পে, আমরা সেই আশ্চর্যজনক এবং রঙিন নকশাগুলি অন্বেষণ করব যা আমাদের পৃথিবীকে আরও সুন্দর এবং উত্তেজনাপূর্ণ করে তোলে।

এই বৈচিত্রের প্রতি দৃষ্টি রেখেই বাংলা পরিয়ोजना কার্য রূপে একটি পুস্তিকা প্রস্তুত কর যার বিষয়বস্তুতে থাকবে,

- মানবনির্মিত পাঁচটি ভিন্নধারার নকশার উল্লেখ পৃথিবীর নানা ক্ষেত্রে যেমন – পোশাক, মেঝের টাইলস, আলপনা ইত্যাদি
- ঐ সকল নকশার মধ্যে যে কোন একটির ইতিহাস ও তার নিজস্বতার বর্ণনা
- একটি আলপনা কার্যের প্রদর্শন ও সেই কাজের উপযুক্ত ধারা বিবরণ
- মধুবনী বা ওরলি পদ্ধতিতে একটি অঙ্কন
- উপযুক্ত প্রচ্ছদ ও শিরোনাম
- প্রাসঙ্গিক চিত্র

পরিয়ोजना কার্যের কাঙ্ক্ষিত ফলাফলঃ

এই প্রকল্পটি সম্পন্ন করার মাধ্যমে, শিক্ষার্থীরা তাদের আশেপাশের বিভিন্ন রঙিন নিদর্শন পর্যবেক্ষণ এবং সনাক্ত করতে সক্ষম হবে, যার মধ্যে রয়েছে প্রকৃতি, শিল্প, পোশাক, ভবন এবং দৈনন্দিন জিনিসপত্র। তারা বিভিন্ন সংস্কৃতি এবং পরিবেশে কীভাবে নিদর্শন তৈরি হয়, পুনরাবৃত্তি

হয় এবং ব্যবহৃত হয় সে সম্পর্কে একটি ধারণা তৈরি করবে। এই অন্বেষণের মাধ্যমে, শিক্ষার্থীরা তাদের পর্যবেক্ষণ দক্ষতা, সৃজনশীলতা এবং নকশা এবং প্রতিসাম্যের প্রতি উপলব্ধি উন্নত করবে। এই প্রকল্পটি তাদের গণিত, শিল্প এবং পরিবেশগত অধ্যয়নের মতো বিষয়গুলির সাথে নিদর্শনগুলিকে সংযুক্ত করতেও সাহায্য করবে, যা শেখাকে আরও মজাদার এবং অর্থবহ করে তুলবে।

Evaluation Rubrics

মূল্যায়নের মানদণ্ড	৪	৩	২	১
বিষয়বস্তু - ৪ (Content)	তথ্য একেবারে সঠিক, সম্পূর্ণ এবং বিষয়বস্তুর সাথে পুরোপুরি মিল আছে।	তথ্য প্রায় সঠিক এবং প্রাসঙ্গিক, অল্প কিছু ভুল থাকতে পারে।	সীমিত তথ্য আছে, বেশ কিছু ভুল বা অপ্রাসঙ্গিকতা রয়েছে।	খুব কম বা ভুল তথ্য উপস্থাপন করা হয়েছে।
গবেষণা -৪ (Research)	চমৎকার গবেষণার মাধ্যমে নানা উদাহরণ ও উৎস ব্যবহার করা হয়েছে।	ভালো গবেষণা রয়েছে, কিছু প্রাসঙ্গিক তথ্য ও উদাহরণ দেওয়া হয়েছে।	গবেষণার প্রচেষ্টা কম, অল্প কয়েকটি তথ্য দেওয়া হয়েছে।	কোনো গবেষণার চিহ্ন নেই বা তথ্য একেবারে অনুপস্থিত।
সৃজনশীলতা -৪ (Creativity)	রঙ, ডিজাইন ও উপস্থাপনায় দারুণ সৃজনশীলতা দেখা গেছে।	ভালোভাবে সাজানো, আকর্ষণীয় ডিজাইন রয়েছে।	সীমিত সৃজনশীলতা, প্রজেক্টটি একঘেয়ে বা তাড়াহুড়া করে করা মনে হয়।	একদম সৃজনশীলতা নেই।
শিল্প সংযুক্তি -৪ (Art Integration)	শিল্প খুব সুন্দরভাবে প্রয়োগ করা হয়েছে এবং বিষয়বস্তুর সাথে সরাসরি সম্পর্কযুক্ত।	শিল্প ভালোভাবে ব্যবহৃত হয়েছে এবং বিষয়টি বোঝাতে সাহায্য করেছে।	খুব সামান্য শিল্প ব্যবহার করা হয়েছে বা বিষয়টির সাথে ঠিকমতো মানানসই নয়।	কোনো শিল্প ব্যবহার হয়নি।
সামগ্রিক উপস্থাপনা- ৪ (Overall Presentation)	অসাধারণ সাজানো, পরিপাটি এবং দৃষ্টিনন্দন।	ভালোভাবে সাজানো, বেশিরভাগ অংশ পরিষ্কার ও আকর্ষণীয়।	উপস্থাপনাটি বিশৃঙ্খল বা বোঝা কঠিন।	অত্যন্ত বিশৃঙ্খল বা অসম্পূর্ণ।

SUBJECT- HINDI 3RD LANGUAGE

विषय- रंगों और आकारों की दुनिया

प्रकृति में पाए जाने वाले रंग और आकार न केवल हमारे चारों ओर के सौंदर्य को बढ़ाते हैं, बल्कि ये हमारी भावनाओं और अनुभूतियों के गहरे प्रतीक भी होते हैं। हिन्दी साहित्य में इनका प्रयोग केवल दृश्य वर्णन के लिए नहीं, बल्कि भावनात्मक और सांस्कृतिक अर्थ देने के लिए भी किया गया है। जैसे पीला रंग उल्लास और नई शुरुआत का प्रतीक है, वहीं नीला रंग शांति और गहराई को दर्शाता है। आकारों के माध्यम से भी कवि अपने विचारों को रूप देते हैं, जैसे गोल चंद्रमा को शांति और पूर्णता का प्रतीक माना गया है। इन्हीं विशेषताओं को ध्यान में रखते हुए, एक सचित्र पॉवरपॉइंट प्रस्तुति तैयार कीजिए, जिसमें आप रंगों, आकारों और कविता की पंक्तियों का उपयोग करके अपनी भावनाओं और विचारों को प्रभावशाली तरीके से प्रस्तुत कर सकें।

LEARNING OBJECTIVES:

- रंगों और आकारों के प्रतीकात्मक महत्व को समझना।
- कविता विश्लेषण की क्षमता विकसित करना।
- सृजनात्मक अभिव्यक्ति का विकास।
- प्रस्तुतीकरण कौशल का विकास।
- ऋतुओं और भावनाओं के आपसी संबंध को समझना।

LEARNING OUTCOME:

- रंगों और आकारों के प्रतीकात्मक अर्थों को पहचानने में सक्षम हुए।
- कविताओं में प्रयुक्त ऋतु, रंग और आकार के माध्यम से भावनाओं और जीवन मूल्यों की प्रस्तुति को समझने में सक्षम हुए।
- रचनात्मकता और प्रस्तुतीकरण कौशल का विकास करने में सक्षम हुए।
- साहित्यिक प्रतीकों और प्रकृति के बीच संबंध को समझते हुए कला, संस्कृति और भाषा के समन्वय को आत्मसात करने में सक्षम हुए।

RUBRICS FOR CLASS- VI

मानदंड	5	4	3	2
विषय-वस्तु का प्रभावी और सृजनात्मक वर्णन (5)	विषय सामग्री से जुड़े तथ्यों पर गहरा शोध और लेख में सटीक एवं विषयानुरूप वर्णन भूमिका और निष्कर्ष के साथ है।	एक या दो तथ्यात्मक त्रुटियों के अलावा अधिकांश तथ्य सही एवं विषयानुरूप है। भूमिका और निष्कर्ष त्रुटियों के साथ है। प्रश्नोत्तर से पहले भूमिका स्पष्ट नहीं थी।	कुछ तथ्य विषयानुरूप है पर तीन से अधिक त्रुटियाँ पाई गई हैं।	प्रयुक्त लेखों में विषय सामग्री स्पष्ट नहीं है।
तकनीक एवं इंटरनेट संसाधनों का रचनात्मक प्रयोग एवं चित्र संकलन (5)	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, तस्वीरों का अच्छा उपयोग।	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, तस्वीरों का कुछ उपयोग।	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, तस्वीरों का कम उपयोग।	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, तस्वीरों का उपयोग नहीं किया गया।
भाषा का प्रयोग (5)	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी त्रुटियाँ न होना। सहज एवं बोधगम्य भाषा का उपयुक्त प्रयोग।	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी कुछ ही त्रुटियों का होना।	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी त्रुटियों के कारण भाषा की उपयुक्तता का अभाव पाया जाना।	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी त्रुटियों के कारण विषयानुसार भाषा का प्रयोग न हो पाना।
समग्र प्रस्तुति (5)	परियोजना का समग्र प्रभाव रोचक और आकर्षक।	परियोजना का समग्र प्रभाव ध्यान आकर्षण के लिए पर्याप्त।	परियोजना की समग्र प्रस्तुति को आकर्षक बनाने के लिए कुछ ही प्रयास किया गया।	समग्र प्रस्तुति को रोचक बनाने के लिए विद्यार्थी ने किसी प्रकार का प्रयास नहीं किया।

BENGALI 3rd LANGUAGE

Class -VI

F.M.-20

Topic: Colourful Patterns around us

Learning Objectives:

- Knowing the nature around us
- Understand the diversity
- Creative skill enhancement
- Writing Skill development

আমরা এমন এক পৃথিবীতে বাস করি যেখানে রঙ এবং সুন্দর নকশার ছোঁয়া আছে! আমরা প্রকৃতি, পোশাক, বাড়ি, এমনকি স্কুলের বই যাই দেখি না কেন, আমাদের চারপাশে বিভিন্ন ধরনের নকশা এবং রঙ দেখতে পাই। নকশাগুলি জিনিসগুলিকে আকর্ষণীয় এবং মজাদার করে তোলে। এগুলি আমাদের আকার চিনতে, জিনিসগুলিকে সংগঠিত করতে এবং এমনকি শব্দ ব্যবহার না করে গল্প বলতে সাহায্য করে।

জেল্লার উপর ডোরাকাটা দাগ থেকে শুরু করে মেঝেতে টাইলস এবং উৎসবের সময় রঙ্গোলির নকশা পর্যন্ত, নকশা সর্বত্রই বিদ্যমান। কিছু নকশা পুনরাবৃত্তি হয়, কিছু পরিবর্তিত হয় এবং কিছু আমাদের অবাক করে! এই প্রকল্পে, আমরা সেই আশ্চর্যজনক এবং রঙিন নকশাগুলি অন্বেষণ করব যা আমাদের পৃথিবীকে আরও সুন্দর এবং আকর্ষণীয় করে তোলে।

We live in a world full of colours and beautiful patterns! Whether we look at nature, clothes, buildings, or even school books, we can see many different designs and colours all around us. Patterns make things look interesting and fun. They help us recognize shapes, organize things, and even tell stories without using words. From the stripes on a zebra, to the tiles on the floor, and the rangoli designs during festivals, patterns are everywhere. Some patterns repeat, some change, and some surprise us! In this project, we will explore the amazing and colourful patterns that make our world more beautiful and exciting.

বাংলা প্রকল্পের অংশ হিসেবে,

- দুটি অরিগামি নকশা তৈরি করো এবং বাংলায় ব্যবহৃত আকারগুলি উল্লেখ করো।
- একটি মান্ডালা শিল্প তৈরি করো এবং বাংলায় ব্যবহৃত ভিত্তি এবং রঙগুলি উল্লেখ করো।
- তোমার আশেপাশের যে কোনও পাঁচটি বস্তুর উল্লেখ করো যেখানে তুমি একই রকম আকার এবং রঙ খুঁজে পাও।
- সঠিক ছবি এবং শিরোনাম ব্যবহার করো

As a part of your Bengali Project,

- Create two Origami Designs and mention the shapes used in Bengali.
- Create one Mandala Art and mention the base and colours used in Bengali.

- Mention any five objects of your surroundings where you can find similar shapes and colours.
- Use proper pictures and title

Learning Outcome

By completing this project, students will be able to observe and identify various colourful patterns in their surroundings, including those found in nature, art, clothing, buildings, and everyday objects. They will develop an understanding of how patterns are formed, repeated, and used in different cultures and environments. Through this exploration, students will improve their observation skills, creativity, and appreciation for design and symmetry. This project will also help them connect patterns to subjects like mathematics, art, and environmental studies, making learning more fun and meaningful.

Evaluation Rubrics

Skills	Competency			
	4	3	2	1
Content (4 marks)	Information is accurate, complete, and highly relevant to the topic	Information is mostly accurate and relevant with minor errors.	Limited information with several errors or off-topic details.	Very little or incorrect information presented.
Research (4 marks)	Shows excellent research with strong examples and variety of sources.	Good research shown with a few examples and relevant facts.	Minimal research effort with few facts or examples.	No evidence of research or examples.
Creativity (4 marks)	Highly creative use of colours, layout, and ideas that stand out.	Good creativity shown through neat and interesting design.	Limited creativity; project looks plain or rushed.	No creative effort shown.
Art Integration (4 marks)	Art is beautifully used to enhance the project and clearly connects to the topic.	Art is used well and supports the project.	Art is used minimally or doesn't relate to the topic well.	No use of art in the project.
Overall Presentation (4 marks)	Extremely well-organized, neat, and visually appealing	Well-organized and mostly neat with good visual appeal.	Presentation is average; some parts may be messy or unclear.	Very messy or incomplete presentation.

SUBJECT: SANSKRIT 3RD LANGUAGE**TOPIC: COLOURFUL PATTERNS AROUND US****LEARNING OBJECTIVES:**

- Knowing the nature around us
- Understand the diversity
- Creative skill enhancement
- Writing Skill development

We live in a world full of colours and beautiful patterns! Whether we look at nature, clothes, buildings, or even school books, we can see many different designs and colours all around us. Patterns make things look interesting and fun. They help us recognize shapes, organize things, and even tell stories without using words.

From the stripes on a zebra, to the tiles on the floor, and the rangoli designs during festivals, patterns are everywhere. Some patterns repeat, some change, and some surprise us! In this project, we will explore the amazing and colourful patterns that make our world more beautiful and exciting.

As a part of your Sanskrit Project,

- Create two Origami Designs and mention the shapes used in Sanskrit.
- Create one Mandala Art and mention the base and colours used in Sanskrit.
- Mention any five object of your surroundings where you can find similar shapes and colours.
- Use proper pictures and title

LEARNING OUTCOME

By completing this project, students will be able to observe and identify various colourful patterns in their surroundings, including those found in nature, art, clothing, buildings, and everyday objects. They will develop an understanding of how patterns are formed, repeated, and used in different cultures and environments. Through this exploration, students will improve their observation skills, creativity, and appreciation for design and symmetry. This project will also help them connect patterns to subjects like mathematics, art, and environmental studies, making learning more fun and meaningful.

RUBRICS FOR EVALUATION

Skills	Competency			
	4	3	2	1
Content (4 marks)	Information is accurate, complete, and highly relevant to the topic	Information is mostly accurate and relevant with minor errors.	Limited information with several errors or off-topic details.	Very little or incorrect information presented.
Research (4 marks)	Shows excellent research with strong examples and variety of sources.	Good research shown with a few examples and relevant facts.	Minimal research effort with few facts or examples.	No evidence of research or examples.
Creativity (4 marks)	Highly creative use of colours, layout, and ideas that stand out.	Good creativity shown through neat and interesting design.	Limited creativity; project looks plain or rushed.	No creative effort shown.
Art Integration (4 marks)	Art is beautifully used to enhance the project and clearly connects to the topic.	Art is used well and supports the project.	Art is used minimally or doesn't relate to the topic well.	No use of art in the project.
Overall Presentation (4 marks)	Extremely well-organized, neat, and visually appealing	Well-organized and mostly neat with good visual appeal.	Presentation is average; some parts may be messy or unclear.	Very messy or incomplete presentation.