শিক্ষার অধিকার
সর্বশিক্ষা অভিযান
সবার শিক্ষা, সবার উন্নতি

পढ़े चलो, बढ़े चलो
RASHTRIYA MADHYAMIK SHIKSHA ABHIYAN

Paschim Banga Samagra Shiksha Mission

Memo No :18/225/Admn/PBSSM/2023 Date :16/04/2025

To,
The Additional District Magistrate, SSM (Education)
All Districts

Sub: Summer Projects 2025 for Classes I to XII
Ref: Guidelines for Summer Projects

Madam / Sir,

The School Education Department (SED), West Bengal started Summer Projects in all schools from 2023 for classes V-XII and in 2024, the Department designed Summer Projects for all students from Class I to XII. This year also it is designed for all students from class I to XII.

The projects may be selected according to the interests, available resources and level of students keeping in mind the school syllabus so that students get a more hands-on approach to the concepts and there is knowledge deepening.

In this regard, you are requested to take necessary action for the implementation of Summer Projects in all schools of your district as per the enclosed Summer Project Guidelines and suggestive Summer Project Topics.

Enclosed: 1. Summer Project Guidelines
2. Summer Project Topics

State Project Director
PBSSM
Dated: 16/04/2025

Memo No :18/1(9)/225/ Admn/ PBSSM/2023

Copy forwarded for kind information and necessary action to:

1. Commissioner of School Education
2. President, West Bengal Council of Higher Education
3. President, West Bengal Board of Secondary Education
4. President, West Bengal Board of Primary Education
5. Mission Director, PBRSSM
6. District Education Officer, SSM, All Districts
7. District Inspector of Schools (Secondary), All Districts
8. District Inspector of Schools (Primary), All Districts
9. Education Specialist, UNICEF

State Project Director,
PBSSM

Bikash Bhawan (2nd Floor) , Salt Lake, Kolkata- 700 091
Phone : 2334-3102, 2358-1822,Fax :- 2358-5297
E-mail : pbssm.spo@gmail.com
Website : www.wb.ssa.nic.in

GUIDELINES FOR SUMMER PROJECTS-2025

Summer projects have become an essential component for a successful career in the 21st century. These projects equip students with the necessary skills for future success by enhancing their existing interests and strengths through academic study, sports, music, and other co-curricular activities. Not only do students develop their current skill set, but they also have the opportunity to explore new fields and tackle novel challenges. Furthermore, these projects foster crucial soft skills such as collaboration, leadership, and independent thinking.

The primary goal of summer projects is to ensure that students benefit from experiential learning while thoroughly enjoying themselves. Research shows that students are more engaged in school and studies when learning is personalized. Personalized project-based learning takes students' interests, strengths, challenges, and goals into consideration when planning educational experiences throughout the session. By integrating real-world applications, these projects help bridge the gap between theoretical knowledge and practical understanding.

The School Education Department, West Bengal (SED) introduced summer projects in all schools in 2023 and continued the initiative in 2024. In 2025, this program will be further refined and expanded for students from Class 1 to 12. The projects undertaken by the schools will be designed according to students' interests and academic levels. Additionally, the Department and other stakeholders have structured these projects to align with the school syllabus, ensuring a hands-on approach to concepts and deeper knowledge retention.

Objectives

Objectives of the Summer Projects 2025:

1. **Skill Enhancement** – Develop academic, creative, and technical skills that align with students' interests and future career aspirations.
2. **Exploration of New Fields** – Encourage students to step out of their comfort zones and engage in diverse disciplines, including STEM, arts, and social sciences.

3. **Holistic Development** – Foster essential life skills such as teamwork, leadership, problem-solving, and independent thinking.
4. **Engaging Learning Experience** – Make learning enjoyable through interactive and hands-on activities that align with students' passions.
5. **Curriculum Integration** – Ensure projects complement the school syllabus to reinforce classroom learning in a practical setting.
6. **Community and Social Awareness** – Encourage students to participate in projects that contribute to societal development and sustainability.
7. **Encouraging Research and Innovation** – Inspire students to think critically and develop innovative solutions to real-world challenges.

The guidelines for these summer projects areclass wise and designed thematically. Schools have the autonomy to decide details of activities as per the availability around them and needs of the students.

Classes 1 to 4 with a focus on Foundational Literacy and Numeracy

- Emphasis should be placed on developing foundational skills such as literacy, numeracy, and communication.
- Classes I & II: Projects to include drawing and colouring. Topics can be around elements from the nature of surrounding or other suitable topics as mentioned in school textbooks.
- Classes III & IV: Projects to include paragraph or story writing on myself, my family, my friends, my pet, my school, basic hygiene at home and school etc.
- These projects will be displayed during the Reading Mela

Classes 5 and 6

'Know your surroundings' or 'One with nature'

- Activities will be designed by selected teachers based on discussions with Head of Institutions and subject teachers
- Students will learn to understand and appreciate nature
- Creating environmentally conscious citizens
- Teachers will orient the students on the expectation and outcome from the projects and how to go about it

- Activities can include, supervised hands-on experiments, observations and documentation, research and documentation projects, creative writing, and others
- Students will be given 10-15 days to complete the project after which they will submit the assignment to the teacher in-charge, as decided by the Head of Institute
- Assignment will be graded in line with the formative (F2) assessment

Classes 7 and 8

Project on local history of your locality / climate change around you / Health and Hygiene / Learn about Government Offices / Higher Education Institutions/ Banks / Post Offices/ Nurseries / Exposure to various life skills and occupational skills

- Selected subject teachers as identified by the HOI will select and design the activity for the students
- HOI may identify possible Institutes where students can visit for exposure to different occupations
- HOI and nodal teacher will coordinate and communicate with those local Institutes
- Location of Institutes should be within 3kms from the school
- HOI to organize a meeting with parents to explain the importance of summer projects and the need to allow their wards to spend those days in this project
- Nodal teacher will develop specific assignments for students upon exposure to these Institutes
- Hosting Institute/ Centre will also share their individual feedback on the students' performance (based on specific format)
- Activities can include process documentation, support to a unit, etc.
- Students will be given 10-15 days to complete the project after which they will submit the assignment to the teacher in-charge, as decided by the Head of Institute
- Assignment will be graded in line with the formative (F2) assessment

Classes 9 and 10

Visit to local Libraries, Colleges , Vocational Institutes, Hospitals, Banks and Corporate bodies, Municipalities and Municipal Corporations, Industries, Local artisan, Handicrafts, Cottage industries, Academic and Research Institutes etc.

Learn about Social and Community services, voluntary in nature in local gardens / health centres / caring for the old and sick / teaching younger children / helping children with special needs in joyful activities. Project on Anti-Tobacco initiatives, drug abuse and awareness on infectious diseases etc. These activities can be done by students with consent from parents and under the guidance of their parents and mentors.

- Exposure to various life-skills and professions
- Honing employability skills
- Appreciation for different occupations
- Selected subject teachers as identified by the HOI will design the activity for the students
- HOI may identify possible Institutes/ Higher Education Centres where students can visit
- HOI and nodal teacher will coordinate and communicate with those Institutes/ Centres
- HOI to organize a meeting with parents to explain the importance of summer projects and the need to allow their wards to spare time for this project
- Nodal teacher will develop specific assignment for students in line with the curriculum of the WBBSE
- Hosting Institute/ Centre will also share their individual feedback on the students' performance (based on a specific format)
- Activities can include process documentation, support to a unit, other paper work suitable for students etc.
- Students will be given 10-15 days to complete the project after which they will submit the assignment to the teacher in-charge, as decided by the HOI
- Assignment will be graded in line with the assessment system followed in schools

Classes 11 and 12

Projects on Science, Social Sciences & Commerce: Visit to Diploma & Degree Colleges, Research Centres,Sericulture, Textile Centres, Different NGOs, Court, Police Station, Post Office, Banks, Cyber Centres, etc.

Activities on Social and Community services, voluntary in nature in livelihood projects / Anganwadis / Hospitals / Libraries / teaching younger children / sensitization on School Safety, Inclusion and Drug Abuse etc. These activities can be done by students with consent from parents and under the guidance of their parents and mentors.

- Exposure to various life-skills and professions that will help students in determining their career paths
- Honing employability skills
- Selected subject teachers as identified by the HOI will design the activity for the students

- HOI may identify possible Institutes where students can visit for their projects and knowledge
- HOI and nodal teacher will coordinate and communicate with those Institutes
- HOI to organize a meeting with parents to explain the importance of summer projects and the need to allow their wards to spare time for this project
- Nodal teacher will develop specific assignments for students as per the Guidelines developed by WBBSE and WBHSCE
- Hosting Institute/ Centre will also share their individual feedback on the students' performance (based on a specific format)
- Activities can include process documentation, support to a unit, other paper work suitable for students etc.
- Students will be given 10-15 days to complete the project after which they will submit the assignment to the teacher in-charge, as decided by the HOI
- Assignment will be graded in line with the assessment system followed in schools

Salient Features for all Classes

- Students shall submit the project once schools reopen. Formative Evaluation may be taken up on the basis of Summer Project.
- The themes can be related to subjects taught in school, local culture, nature, inclusion, community, or any other relevant aspect.
- Schools have the autonomy to select themes based on their students' needs and availability of resources
- Assignments will be mostly home-based and if possible, some visits to connect with nature/surroundings depending up on the weather
- Projects will be assessed using the formative assessment approach.
- Teachers should use age-appropriate assessment methods, such as rubrics, checklists, anecdotal records, to evaluate students' performance. Assessment should focus students' engagement, learning outcomes, and the development of key skills
- Schools should encourage students to collaborate with their peers, family members. community members during the projects.
- Parents or guardians may be involved and encouraged to provide support and guidance to their children during the project duration
- Activities can include hands-on experiments, observations, Art and Craft, Story Telling, and interactive games

- The projects should be age-appropriate, engaging and should incorporate opportunities for critical thinking, problem solving and experiential learning

Review of the summer projects submitted by students

The teachers are required to review the projects submitted by the students (individually or group wise) The following factors are to be kept in mind when evaluating the projects by students

Suggestive criteria for review

- Innovative and Critical thinking- the student creatively thought about their project and came up with innovative ideas for the project.
- Technical learning-the student was able to connect the activity with the lessons taught in the class and also display it in the project.
- Presentations skills- the student demonstrated good presentation skills in the project in the form of neatness, clarity of thoughts, fluency etc.
- Active participation- the student actively participated during the activities, exchanged their views, showed interest in learning new things, etc.
- Empathy and cooperation- the student was empathetic towards their classmates during the activities and projects, the student was cooperative and followed instructions provided by the teachers, etc.
- The school will display all innovative projects and is also encouraged to share a few good projects with the District Officials.

Feedback on students' participation in Summer Projects

The HOI may be requested to share their experiences on the students' participation in the summer projects on the following suggestive areas, if possible

- Number of students that participated in activities.
- Topics/ Activities undertaken as a part of the summer project.
- Any special/innovative initiatives taken by the school.
- Positive outcomes observed.
- Life skills if the students were exposed to, while carrying out the activities and the projects.

Sharing of best summer projects

The districts may share the best projects from each level with the State. The best projects may be shortlisted along the following areas:

- Creativity and innovation
- Presentation
- Applications with respect to classroom learning
- Photos/videos shared must be clearly labeled:
    - Name of school
    - Topic of project
    - Photos of the summer project
    - Innovative factor of the project
    - Learnings demonstrated in the project

A template for sharing best projects shall be provided by the State.

Reporting at the District Level

The Districts shall collect and report to the State the following information

- Number of schools, level wise, that conducted summer projects in their district
- Class wise number of boys and girls that participated in summer project

A Google Sheet will be shared for the same.

Implementation Plan:

While Educational Administrators will play a direct role in the implementation of this initiative, the following committees will be set up to monitor and supervise to ensure smooth implementation of the initiative:

Block Level Committee for Rural areas

- Block Development Officer - Chairperson
- I/C or O/C of Police Stations - Member
- SIs or AIs of Schools - Member – Convenor
- Any other Official may be coopted

Sub-Divisional Level Committee for Urban areas

- Sub Divisional Magistrate - Chairperson
- SDPO/ ACP - Member
- ADI/ AI of schools - Member – Convenor
- Any other Official may be coopted

District Level Committee

- District Magistrate or ADM (Education) - Chairperson
- Representative of SP/ CP not below the rank of Addl. SP/DCP - Member
- District Education Officer, SSM – Member - Convenor
- DI (Primary) - Member
- DI (Secondary) - Member

Timeline:

Sl. No.	Activity	Stakeholders	Nodal Officer(s)	Timeline
1.	Orientation Programme by State	SNOs, DEOs SSM, DIS (Pr/ Sec), DNOs (SSK/MSK),		By 17th April 2025
2.	Orientation Programme for HoIs and SIs by District	ADIs, SIS, AIS, HOIs, Academic Supervisor, SSK/ MSK Head Teachers, SDPO /ACP /IC/OC Representatives of SP/CP	ADM of concerned district	By 22nd April 20215
3.	Orientation Programme for Teachers (cluster level)	Selected teachers of respective schools	DIS (Pr/Sec) of concerned district	By 25th April 2025
4	Monitoring of summer camps in the districts	All Educational Administrators at the State and District level		During the Summer Break
5.	Reporting on Summer Projects to the State	HOI/SI	District Education Officers	Within 7 days after schools reopen
6.	Sharing of best projects by the Districts to the States	HOI	District Education Officers	By first Week of July 2025

Summer Project Topics – Teachers' Guide

Note:

1. The topics below are suggestive.
2. The subject teachers may use these topics as is or modify them as per need.
3. Teachers do not have to stick to the class category.
4. Students may be given a topic from a higher or lower class as per need.

Projects for Class 1 & 2

Suggested Topic	Additional Instructions	Mode of Assessment
Nature Exploration: • Visit around the community, identify different plants, insects, and birds. • Gardening activities such as planting seeds, watering plants, and watching them grow. • Flower and vegetable printing • Drawing with shapes • Learning about different types of weather and how they affect nature.	These activities can be done by students with help from parents and other community members. Students can be asked to draw the things they saw and liked.	Evaluate the attempt made by students. Evaluate the ability to draw and depict things that they saw in nature and around them. Evaluate the creativity that students showed.
Art and Creativity: • Drawing or painting, finger printing, sessions with different themes like animals, nature, or favourite story • Crafting activities using materials like paper, cardboard, and clay to make sculptures or models. • Storytelling sessions where children create their own stories and illustrate them.	These activities can be done by students with help from parents and other community members. Students can be asked to draw the things they saw and liked. **Instruct students to use materials found around them for free, like leaves, twigs, rags, papers. Students and parents should not feel any pressure to purchase any new item.**	Evaluate the attempt made by students. Evaluate the ability to draw and depict things that they saw in nature and around them. Evaluate the creativity that students showed.

Projects for Class 3 & 4

Suggested Topic	Additional Instructions	Mode of Assessment
Literacy and Language: • Reading aloud from age-appropriate books and discussing the stories with family members • Writing short stories about daily activities, their family, surrounding, 'Myself' etc. • Keeping a daily journal to record thoughts, experiences, and observations. • Writing poems, or comic strips inspired by summer adventures or imaginary worlds.	These activities can be done by students themselves. Once schools reopen, students can be asked to share their work with the class.	Evaluate the attempt made by students. Evaluate the ability to draw and depict things that they saw around them. Evaluate the creativity that students showed.
Art and Creativity: • Daily drawing or painting sessions with different themes like nature, market place, fairs, festivals, etc. • Drawing with geometric shapes • Crafting activities using materials like paper, cardboard, and clay to make sculptures or models. • Posters on Lifeskills- 'Self Awareness' or 'Empathy', Students can draw and paint their understanding of these lifeskills	These activities can be done by students themselves. Once schools reopen, students can be asked to share their work with the class. **Instruct students to use materials found around them for free, like leaves, twigs, rags, papers. Students and parents should not feel any pressure to purchase any new item.**	Evaluate the attempt made by students. Evaluate the ability to draw and depict things that they saw around them. Evaluate the creativity that students showed.

Projects for Class 5 & 6

Science

Suggested Topic	Additional Instructions	Mode of Assessment

Conduct a simple experiment at home to investigate how different liquids (e.g. water, oil, vinegar) interact and write up your findings.	Write findings as a report, poster or a presentation. Organize findings in a clear and logical manner. Use appropriate scientific vocabulary. Include purpose, materials and methods, observations and results, and a conclusion.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts.
Grow a small garden or plant and record the changes you observe over time in a journal.	Write a journal entry each day/week, recording observations and changes. Include sketches or photographs as appropriate.	Evaluate clarity and organization of writing/presentation. Evaluate ability to observe and record changes accurately. Evaluate understanding of plant growth and development.
Explore the properties of magnets by conducting simple experiments and creating a magnet maze.	Write findings as a report, poster or a presentation. Organize findings in a clear and logical manner. Use appropriate scientific vocabulary. Include purpose, materials and methods, observations and results, and a conclusion.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to magnets.
Investigate how different materials affect sound by creating a simple musical instrument from everyday items.	Write findings as a report, poster or a presentation. Organize findings in a clear and logical manner. Use appropriate scientific vocabulary. Include purpose, materials and methods, observations and results, and a conclusion.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to sound and materials.
Study the different types of clouds and create a drawing that shows each type.	Create a drawing that shows each type of cloud, along with a short description of its features and characteristics.	Evaluate accuracy and completeness of drawings. Evaluate ability to identify and describe different types of clouds.
Pick a topic from below and learn more about it from your textbook or the Internet. Make a chart/model describing what you learned.	Create a chart, model or other visual representation of your findings. Organize information in a clear and logical manner. Include information on the topic, sources used and any	Evaluate clarity and organization of chart/model. Evaluate accuracy and completeness of information presented. Evaluate understanding of the topic and ability to apply

• Choice of food of different animals • Role of water in biological world • Metals and non-metals used in your school building, hospital, residence and railway station • Types of manmade and natural processes occurring around you • Types of harmful processes occurring in the environment	important data or facts. Use appropriate vocabulary and terminology.	knowledge to create a visual representation.

Social Science

Suggested Topic	Additional Instructions	Mode of Assessment
Investigate the role of community helpers (e.g. police officers, firefighters, nurses) and create a presentation on their important work.	Create a poster or a presentation using non-digital tools such as paper, markers, or paint. Organize information in a clear and logical manner. Include information on the helper's role, importance, and impact on the community. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of poster/presentation. Evaluate accuracy and completeness of information presented. Evaluate understanding of the helper's role and impact on the community.
Study the effects of technology on everyday life and write an essay about how it has impacted your own life.	Write an essay using non-digital tools such as paper and pen. Organize information in a clear and logical manner. Include information on the positive and negative effects of technology. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of the essay. Evaluate ability to convey personal experiences and opinions. Evaluate understanding of the effects of technology on everyday life.
Conduct a simple experiment at home to investigate how different liquids (e.g. water, oil, vinegar) interact and write up your findings.	Write findings as a report using non-digital tools such as paper and pen. Organize findings in a clear and logical manner. Include information on the purpose, materials and	Evaluate clarity and organization of writing. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts.

	methods, observations and results, and a conclusion. Use appropriate scientific vocabulary.	
Study the physical features of India, including its mountains, rivers, and coastlines, and create a map of the country.	Create a map using non-digital tools such as paper, markers, or paint. Include information on the physical features of India. Use appropriate symbols and legends. Ensure accuracy in representation of the features.	Evaluate clarity and accuracy of the map. Evaluate ability to represent physical features. Evaluate understanding of the physical features of India.
Research and present on the different states of India, highlighting their unique culture, traditions, and landmarks.	Create a poster or a presentation using non-digital tools such as paper, markers, or paint. Organize information in a clear and logical manner. Include information on the state's unique culture, traditions, and landmarks. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of poster/presentation. Evaluate accuracy and completeness of information presented. Evaluate understanding of the state's unique culture, traditions, and landmarks.

Mathematics

Suggested Topic	Additional Instructions	Mode of Assessment
Practice basic arithmetic skills by playing a set of fun math games.	Create a set of maths problems and their solutions. Or look up problems in your textbook. Some games in newspapers and magazines may also be explored.	Evaluate the correctness of the math problems and their solutions as well as the ability to explain how to solve them
Create a chart or graph that shows how long it takes to complete various tasks	Maintain a record of different tasks done at home and how much time each takes. Create a chart or graph that displays the amount of time taken for different tasks to be completed.	Evaluate the clarity of the chart or graph, the ability to identify trends, and the use of appropriate units of measurement
Investigate the relationship between distance, time, and speed by conducting a simple experiment	Get together with your friends and run a short race. First measure the distance accurately using a measuring tape. Then measure the time taken by each friend using a stopwatch in the mobile phone. Write a report that explains the experiment, the observations, and the findings.	Evaluate the clarity and organization of the report, the ability to draw conclusions based on findings, and the understanding of scientific concepts

Study different measurement units and create a recipe or measurement conversion chart for your favorite foods	Create a measurement conversion chart that shows how to convert between different units of measurement commonly used in cooking.	Evaluate the completeness and accuracy of the conversion chart and the ability to apply it to convert measurements accurately
Practice addition, subtraction, multiplication, and division skills by solving word problems related to everyday life in India.	Create a set of word problems that involve basic arithmetic operations and everyday life in India. You can also look up problems in magazines or newspapers.	Evaluate the ability to identify and apply the appropriate arithmetic operation and solve the word problems correctly.

Language

Suggested Topic	Additional Instructions	Mode of Assessment
Create a picture dictionary by drawing and labeling pictures of objects or animals with their corresponding English words.	Use at least 20 words. The pictures may be hand-drawn or cut out from newspaper. All pictures should be neatly labeled in English.	Evaluate completeness and accuracy of dictionary.
Listen to a simple English song and write the lyrics by pausing and replaying the song multiple times.	Written document, clearly indicating the song title and artist.	Evaluate accuracy and completeness of lyrics.
Create a comic strip using simple English phrases and vocabulary.	Use at least 6 phrases/vocabulary words. The comic strip may be hand-drawn and should contain some dialogue and narration written in English.	Evaluate clarity of plot and effectiveness of English usage.
Write a short paragraph about your favorite food, movie or hobby in English.	Use at least 5 sentences. Written document, using proper sentence structure and vocabulary.	Evaluate clarity of writing and accuracy of English.
Watch a short video on a topic of interest and create a one-page summary using simple sentences.	Choose a video that is easy to understand and not too lengthy. One-page summary, using simple sentences and proper grammar.	Evaluate accuracy and completeness of summary.

Surrounding Environment

Suggested Topic	Mode of Writing/Presentation	Mode of Assessment
Go on a nature walk or hike and collect items	Create a collection of items and organize them according to	Evaluate clarity and organization of collection.

that represent different seasons or weather conditions.	season or weather condition. Include a written description of each item and why it represents a particular season or weather condition. Use appropriate vocabulary and terminology.	Evaluate accuracy and completeness of descriptions. Evaluate understanding of seasons and weather conditions.
Study the effects of litter on the environment and create a poster or short video that encourages people to pick up trash and dispose of it properly.	Create a visually appealing poster or short video that educates people about the harmful effects of litter on the environment and encourages them to pick up trash and dispose of it properly. Include information on the types of litter commonly found in your community, how litter affects the environment, and steps people can take to reduce litter.	Evaluate clarity and effectiveness of communication. Evaluate accuracy and completeness of information presented. Evaluate understanding of the impact of litter on the environment.
Explore the benefits of recycling and create a recycling chart that shows what items can be recycled and how they should be sorted.	Create a visually appealing chart that educates people about the benefits of recycling and shows what items can be recycled and how they should be sorted. Include information on the types of materials commonly recycled, the process of recycling, and the environmental benefits of recycling.	Evaluate clarity and organization of chart. Evaluate accuracy and completeness of information presented. Evaluate understanding of the benefits of recycling.
Investigate the different types of trees in your community and create a simple guide that describes their characteristics.	Create a guide that includes information about the different types of trees in your community, their physical characteristics, and their importance. Include pictures or illustrations of each type of tree. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of guide. Evaluate accuracy and completeness of information presented. Evaluate understanding of the different types of trees in your community.
Practice observing skills by creating a nature journal that records the different flora and fauna found in and around your city/village.	Create a nature journal that includes written and/or illustrated descriptions of the different flora and fauna found in and around your city/village. Organize the journal in a clear and logical manner. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of journal. Evaluate accuracy and completeness of descriptions. Evaluate understanding of the different flora and fauna found in and around your city/village.

Health and Physical Education

Suggested Topic	Additional Instructions	Mode of Assessment
Research an infectious disease and prepare a report on its causes, symptoms, prevention, and treatment. Dengue	Write a report on the infectious disease, covering its causes, symptoms, prevention, and treatment. Organize information in a clear and logical manner. Use appropriate scientific vocabulary and terminology. Cite sources used in the report.	Evaluate clarity and organization of writing. Evaluate accuracy and completeness of information presented. Evaluate ability to apply knowledge of scientific concepts to the topic.
Develop a project on safe drinking water and its impact on health, and create an awareness campaign through posters or presentations.	Develop a project on safe drinking water, including its impact on health and methods of ensuring its safety. Create awareness posters or presentations to educate others on the importance of safe drinking water. Include appropriate visuals and use clear and concise language.	Evaluate clarity and effectiveness of awareness campaign. Evaluate understanding and application of safe drinking water concepts. Evaluate creativity and visual appeal of posters/presentations.
Create a project on the skeletal and muscular system, including the bones, joints, and muscles, and their functions in the body.	Create a project on the skeletal and muscular system, covering the bones, joints, and muscles and their functions in the body. Use appropriate anatomical terminology and include diagrams or visual aids. Organize information in a clear and logical manner. Cite sources used in the project.	Evaluate accuracy and completeness of information presented. Evaluate ability to apply knowledge of anatomical concepts to the topic. Evaluate organization and clarity of project. Evaluate effectiveness of visual aids used.
Create a 'My Aim' chart based on your career interests and passions. Refer to the Career Guidance Portal on Banglar Shiksha for the same.	Create a chart that includes your career interests and passions, along with information on the education and training required for different career paths. Refer to the Career Guidance Portal on Banglar Shiksha for information and guidance.	Evaluate clarity and organization of chart. Evaluate understanding of different career paths and required education and training.

Projects for Class 7 & 8

Science

Suggested Topic	Additional Instructions	Mode of Assessment
Investigate the properties of light by	Write a report or create a model of a periscope or	Evaluate understanding of the properties of light and

exploring how it travels and reflects, and create a model of a periscope or a kaleidoscope.	kaleidoscope. Include information on the properties of light, sources used and any important data or facts. Use appropriate vocabulary and terminology.	ability to apply knowledge to create a model. Evaluate accuracy and completeness of information presented. Evaluate use of appropriate vocabulary and terminology.
Study the different types of rocks and minerals found in your region, and create a collection of samples with labels.	Create a collection of rock and mineral samples with labels. Organize information in a clear and logical manner. Include information on the types of rocks and minerals found in your region, sources used and any important data or facts. Use appropriate vocabulary and terminology.	Evaluate organization and completeness of rock and mineral collection and labels. Evaluate accuracy and completeness of information presented. Evaluate use of appropriate vocabulary and terminology.
Explore the concept of renewable energy and create a model of a solar cooker or windmill.	Create a model of a solar cooker or windmill. Include information on renewable energy, sources used and any important data or facts. Use appropriate vocabulary and terminology.	Evaluate accuracy and completeness of information presented. Evaluate understanding of renewable energy concepts and ability to apply knowledge to create a model. Evaluate use of appropriate vocabulary and terminology.
Investigate the different parts of a plant and their functions, and create a diagram of a plant cell.	Create a diagram of a plant cell and include information on the different parts of a plant and their functions. Organize information in a clear and logical manner. Include sources used and any important data or facts. Use appropriate vocabulary and terminology.	Evaluate accuracy and completeness of information presented. Evaluate understanding of plant anatomy and ability to apply knowledge to create a diagram. Evaluate use of appropriate vocabulary and terminology.
Study the properties of magnets and create a model of a simple motor.	Create a model of a simple motor and include information on the properties of magnets. Organize information in a clear and logical manner. Include sources used and any important data or facts. Use appropriate vocabulary and terminology.	Evaluate accuracy and completeness of information presented. Evaluate understanding of the properties of magnets and ability to apply knowledge to create a model. Evaluate use of appropriate vocabulary and terminology.
Pick a topic from below and learn more about it from your textbook or	Create a chart, model or other visual representation of your findings. Organize information	Evaluate clarity and organization of chart/model. Evaluate accuracy and

the Internet. Make a chart/model describing what you learned. • Floatation and buoyancy of different objects and its importance in different areas of life • Archimedes' Principle and its practical application • Sources of protein and their uses in human body • Formation of fossil fuels and their present condition • Diversities of prey-predator relationship in biological world • Mode of transmission of different epidemics and its relationship with different animals	in a clear and logical manner. Include information on the topic, sources used and any important data or facts. Use appropriate vocabulary and terminology.	completeness of information presented. Evaluate understanding of the topic and ability to apply knowledge to create a visual representation.

Social Science

Suggested Topic	Additional Instructions	Mode of Assessment
Investigate the impact of urbanization on the environment in West Bengal, and suggest ways to promote sustainable development.	Use reliable sources to gather information on the topic. Organize findings in a clear and logical manner. Include suggestions for promoting sustainable development. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of writing/presentation. Evaluate accuracy and completeness of information presented. Evaluate understanding of the impact of urbanization on the environment and ability to propose solutions.

Study the Indian freedom struggle and create a chart that shows the different phases of the movement.	Use reliable sources to gather information on the topic. Organize findings in a clear and logical manner. Include key events and figures in the movement. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of chart. Evaluate accuracy and completeness of information presented. Evaluate understanding of the Indian freedom struggle and ability to create a visual representation.
Study the different forms of government, including democracy, monarchy, and dictatorship, and create a chart that shows the key features of each.	Use reliable sources to gather information on the topic. Organize findings in a clear and logical manner. Include key features and examples of each type of government. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of chart. Evaluate accuracy and completeness of information presented. Evaluate understanding of different forms of government and ability to create a visual representation.
Investigate the structure of the Indian government, including its executive, legislative, and judicial branches, and create a diagram that shows how they work together.	Use reliable sources to gather information on the topic. Organize findings in a clear and logical manner. Include key roles and responsibilities of each branch. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of diagram. Evaluate accuracy and completeness of information presented. Evaluate understanding of the structure of Indian government and ability to create a visual representation.
Study the importance of voting and civic responsibility, and create a poster that encourages people to participate in elections.	Use reliable sources to gather information on the topic. Organize findings in a clear and logical manner. Include information on the importance of voting and civic responsibility. Create a visually appealing poster that encourages people to participate in elections. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of poster. Evaluate accuracy and completeness of information presented. Evaluate ability to create a visually appealing and effective poster that promotes civic responsibility.

Mathematics

Suggested Topic	**Additional Instructions**	**Mode of Assessment**
Use simple geometry to	Use graph paper to sketch out a plan for the maze or obstacle	Evaluate creativity and complexity of the maze or

design a maze or obstacle course and have friends or family members try to complete it.	course. Include measurements and angles used. Provide clear instructions for completing the maze or obstacle course. Be creative and have fun!	obstacle course. Evaluate clarity of instructions provided. Evaluate ability to apply knowledge of geometry to create a fun and challenging activity.
Investigate the properties of triangles, including their angles and sides, and create a chart that shows the different types of triangles.	Research and identify different types of triangles. Create a chart that includes information on the number of sides, angles, and properties of each type of triangle. Use appropriate mathematical vocabulary and terminology.	Evaluate accuracy and completeness of information presented in the chart. Evaluate understanding of different types of triangles and their properties. Evaluate use of appropriate mathematical vocabulary and terminology.
Study the concept of symmetry, and create a design that showcases different types of symmetry found in Indian art and architecture.	Research and identify different types of symmetry found in Indian art and architecture. Create a design that showcases different types of symmetry. Include information about the types of symmetry used and the significance of these designs in Indian art and architecture. Use appropriate terminology and vocabulary.	Evaluate accuracy and completeness of information presented in the design. Evaluate understanding of different types of symmetry and their use in Indian art and architecture. Evaluate use of appropriate terminology and vocabulary.
Investigate the properties of circles, including radius, diameter, and circumference, and create a model of a clock that shows these properties.	Research and identify the properties of circles, including radius, diameter, and circumference. Create a model of a clock that accurately displays these properties. Label each part of the clock and include appropriate measurements. Use appropriate mathematical vocabulary and terminology.	Evaluate accuracy and completeness of information presented in the model. Evaluate understanding of the properties of circles and their use in creating a clock. Evaluate use of appropriate mathematical vocabulary and terminology.
Study the properties of different types of polygons, including squares, rectangles, and pentagons, and create a collection of models that showcase these shapes.	Research and identify different types of polygons, including squares, rectangles, and pentagons. Create a collection of models that accurately display the properties of these shapes. Label each part of the model and include appropriate measurements. Use appropriate mathematical vocabulary and terminology.	Evaluate accuracy and completeness of information presented in the models. Evaluate understanding of the properties of different types of polygons and their use in creating the models. Evaluate use of appropriate mathematical vocabulary and terminology.

Language

Suggested Topic	Additional Instructions	Mode of Assessment
Conduct an interview with a family member or friend in English, record it and write a summary of the conversation.	Choose a family member or friend to interview and prepare a list of questions beforehand. Record the conversation using a phone or other device and transcribe the relevant portions. Write a summary of the conversation, including key points and interesting details. Use appropriate vocabulary and grammar.	Evaluate clarity and accuracy of summary. Evaluate ability to conduct an interview and use appropriate English vocabulary and grammar.
Read a book or a short story in English and create a book report summarizing the plot, characters and theme.	Choose a book or short story to read and take notes on the plot, characters and theme. Organize your notes into a clear and logical summary of the book. Include your personal opinions and thoughts on the book. Use appropriate vocabulary and grammar.	Evaluate clarity and organization of book report. Evaluate ability to summarize plot, characters and theme and use appropriate English vocabulary and grammar.
Read the editorial page of any English newspaper and write the meanings of at least 5 new words.	Choose an editorial to read and identify at least 5 new words. Look up the meanings of these words and write them down. Use the new words in your own sentences to demonstrate understanding. Use appropriate vocabulary and grammar.	Evaluate accuracy and completeness of word definitions. Evaluate ability to use new words correctly in sentences and use appropriate English vocabulary and grammar.
Write a letter to a friend or family member in English using simple phrases and vocabulary you have learned.	Choose a friend or family member to write to and think about what you want to say. Write a letter in English using simple phrases and vocabulary you have learned. Include personal information and ask questions. Use appropriate vocabulary and grammar.	Evaluate clarity and accuracy of letter. Evaluate ability to use appropriate English vocabulary and grammar and convey personal information effectively.
Research a famous tourist destination and write a travel guide in English.	Choose a famous tourist destination and research information about it. Write a travel guide in English, including information on attractions, accommodations, and local	Evaluate clarity and accuracy of travel guide. Evaluate ability to research and organize information, use appropriate English vocabulary and grammar, and effectively convey

	customs. Use appropriate vocabulary and grammar. Include images and/or maps, if possible.	information about a tourist destination.

Surrounding Environment

Suggested Topic	Additional Instructions	Mode of Assessment
Study the effects of weather patterns on the local environment and create a chart or graph that shows changes over time.	Include information on the types of weather patterns studied and their effects on the local environment. Use appropriate scientific vocabulary. Provide a clear and accurate representation of data.	Evaluate clarity and organization of chart/graph. Evaluate accuracy and completeness of data presented. Evaluate understanding of the relationship between weather patterns and the environment.
Study the impact of air pollution on the health of people and animals in urban areas of West Bengal, and create a poster that highlights the issue.	Include information on the sources and types of air pollution in urban areas of West Bengal. Provide examples of the impact on human and animal health. Use appropriate visuals and graphics to support the message. Include suggestions for reducing air pollution.	Evaluate clarity and organization of poster. Evaluate accuracy and completeness of information presented. Evaluate understanding of the impact of air pollution on human and animal health.
Investigate the impact of deforestation and habitat destruction on the biodiversity of West Bengal, and create a presentation that suggests ways to protect the environment.	Include information on the causes and effects of deforestation and habitat destruction in West Bengal. Provide examples of the impact on biodiversity. Include suggestions for protecting the environment and promoting sustainable practices. Use appropriate visuals and graphics to support the message.	Evaluate clarity and organization of presentation. Evaluate accuracy and completeness of information presented. Evaluate understanding of the impact of deforestation and habitat destruction on biodiversity.
Investigate the impact of climate change on the Sundarbans mangrove forest, a UNESCO World Heritage Site located in West Bengal, and	Include information on the causes and effects of climate change on the Sundarbans mangrove forest. Provide examples of the impact on the environment and local communities. Use appropriate visuals and graphics to support the message. Include	Evaluate clarity and organization of poster. Evaluate accuracy and completeness of information presented. Evaluate understanding of the impact of climate change on the Sundarbans mangrove forest.

create a poster that highlights the issue.	suggestions for reducing the impact of climate change on the forest.	
Investigate the local flora and fauna of West Bengal, including birds, insects, and plants, and create a field guide that showcases different species.	Include information on the different types of flora and fauna studied. Provide accurate descriptions and images of different species. Use appropriate scientific vocabulary. Organize the field guide in a clear and logical manner.	Evaluate clarity and organization of field guide. Evaluate accuracy and completeness of information presented. Evaluate understanding of the local flora and fauna of West Bengal.

Health and Physical Education

Suggested Topic	Additional Instructions	Mode of Assessment
Create an awareness campaign on child protection against sexual offenses, and prepare a report outlining preventative measures and safety protocols.	Include information on different forms of sexual offenses, impact on victims, and ways to report and seek help. Design campaign materials such as posters, pamphlets or social media posts. Use age-appropriate language and graphics.	Evaluate the effectiveness of the campaign in promoting awareness and understanding of child protection against sexual offenses. Evaluate the clarity and impact of the report in outlining preventative measures and safety protocols. Evaluate the creativity and effectiveness of the campaign materials.
Research the history and benefits of yoga as a traditional Indian practice, and create a poster or presentation showcasing its significance.	Include information on the origin and evolution of yoga, as well as its physical, mental and spiritual benefits. Use appropriate visuals and designs to highlight the key points. Ensure that the presentation is age-appropriate and engaging.	Evaluate the effectiveness of the poster or presentation in showcasing the history and benefits of yoga. Evaluate the clarity and coherence of the presentation. Evaluate the creativity and effectiveness of the visual aids.
Create a project on consumer protection, including consumer rights, responsibilities, and ways to avoid fraud and scams.	Include information on common consumer issues and complaints, and ways to resolve them. Create a plan for protecting oneself as a consumer and preventing fraud and scams. Use appropriate language and examples to illustrate key points.	Evaluate the understanding of the topic and ability to apply knowledge in creating a comprehensive project. Evaluate the effectiveness of the plan for protecting oneself as a consumer. Evaluate the clarity and coherence of the project.
Create an awareness campaign on the	Include information on the environmental impact of	Evaluate the effectiveness of the campaign in promoting awareness

negative impact of using plastic carry bags, and develop an awareness campaign promoting eco-friendly alternatives.	plastic bags, alternatives available and ways to reduce plastic usage. Design campaign materials such as posters, pamphlets or social media posts. Use age-appropriate language and graphics.	and understanding of the negative impact of plastic carry bags. Evaluate the creativity and effectiveness of the campaign materials. Evaluate the clarity and impact of the message on eco-friendly alternatives.
Create a project on awareness campaign for using plastic carry bags.	Include information on the harmful impact of plastic bags on the environment and ways to reduce plastic usage. Create a plan for promoting awareness about the negative impact of plastic bags and encouraging people to switch to eco-friendly alternatives. Use appropriate language and examples to illustrate key points.	Evaluate the understanding of the topic and ability to apply knowledge in creating a comprehensive project. Evaluate the effectiveness of the plan for promoting awareness and encouraging eco-friendly alternatives. Evaluate the clarity and coherence of the project.
Create a 'My Aim' chart based on your career interests and passions. Refer to the Career Guidance Portal on Banglar Shiksha for the same.	Create a chart that includes your career interests and passions, along with information on the education and training required for different career paths. Refer to the Career Guidance Portal on Banglar Shiksha for information and guidance.	Evaluate clarity and organization of chart. Evaluate understanding of different career paths and required education and training.

Projects for Class 9 & 10

Science

Suggested Topic	Additional Instructions	Mode of Assessment
Investigate the effect of temperature on the rate of chemical reactions and report your findings.	Write findings as a report, poster or a presentation. Organize findings in a clear and logical manner. Use appropriate scientific vocabulary. Include purpose, materials and methods, observations and results, and a conclusion. Conduct the	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to chemical reactions and temperature.

	experiment multiple times at different temperatures to get more accurate results.	
Explore the properties of waves by creating a model of a wave or a musical instrument that produces sound waves.	Create a model of a wave or a musical instrument that produces sound waves, and explain how the model works. Include a discussion of wave properties such as frequency, amplitude, and wavelength.	Evaluate accuracy and completeness of the model. Evaluate ability to explain the model and the properties of waves.
Investigate the process of osmosis by conducting an experiment with different concentrations of salt water and plant cells.	Write findings as a report, poster or a presentation. Organize findings in a clear and logical manner. Use appropriate scientific vocabulary. Include purpose, materials and methods, observations and results, and a conclusion. Consider using different types of plant cells or different concentrations of salt water for more detailed observations.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to osmosis and cell membranes.
Study the properties of light and create a model of a telescope or a microscope.	Create a model of a telescope or a microscope, and explain how it works. Include a discussion of light properties such as reflection, refraction, and magnification. Compare and contrast the differences between the two instruments.	Evaluate accuracy and completeness of the model. Evaluate ability to explain the model and the properties of light.
Investigate the factors that affect the strength of an electromagnet and report your findings.	Write findings as a report, poster or a presentation. Organize findings in a clear and logical manner. Use appropriate scientific vocabulary. Include purpose, materials and methods, observations and results, and a	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to electromagnetism.

	conclusion. Consider changing different factors such as the number of coils, the amount of current, and the type of core material for more detailed observations.	
Pick a topic from below and learn more about it from your textbook or the Internet. Make a chart/model describing what you learned. • How microbes affect our world • Variation of organelles in organisms living in different environmental conditions • Concept of momentum and its application in everyday life • Concept of friction and its application in everyday life • Slow and fast reactions/processes in the environment and their impact on the environment	Create a chart, model or other visual representation of your findings. Organize information in a clear and logical manner. Include information on the topic, sources used and any important data or facts. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of chart/model. Evaluate accuracy and completeness of information presented. Evaluate understanding of the topic and ability to apply knowledge to create a visual representation.

Social Science

Suggested Topic	Additional Instructions	Mode of Assessment
Study the impact of the monsoon season on India's economy and infrastructure, and create a chart that shows the different phases of the monsoon.	Conduct research on the topic using credible sources. Use relevant statistical data and maps to illustrate the impact of the monsoon on India's economy and infrastructure.	Evaluate accuracy and completeness of the chart. Evaluate ability to identify and analyze the impact of the monsoon on India's economy and infrastructure.
Investigate the impact of the Partition of India on the country's history,	Conduct research on the topic using credible sources. Use relevant images and text to	Evaluate effectiveness and creativity of the poster. Evaluate ability to identify

politics, and society, and create a poster that highlights the issue.	highlight the key aspects of the Partition and its impact on India's history, politics, and society.	and analyze the impact of the Partition on India's history, politics, and society.
Study the cultural and artistic traditions of West Bengal, including its music, dance, and theatre, and create a presentation that showcases these traditions.	Conduct research on the topic using credible sources. Use relevant images and videos to showcase the key aspects of West Bengal's cultural and artistic traditions. Use appropriate terminology and contextual information to enhance the presentation.	Evaluate clarity and organization of the presentation. Evaluate ability to identify and analyze the cultural and artistic traditions of West Bengal.
Research and present on the life and work of Mahatma Gandhi, and explore his philosophy of non-violence and civil disobedience.	Conduct research on the topic using credible sources. Use relevant images and videos to showcase the key aspects of Mahatma Gandhi's life and work. Explore his philosophy of non-violence and civil disobedience and its relevance in today's world.	Evaluate clarity and organization of the presentation. Evaluate ability to identify and analyze the life and work of Mahatma Gandhi and his philosophy of non-violence and civil disobedience.
Study the role of media in politics, and create a chart that shows the different types of media and their impact on public opinion.	Conduct research on the topic using credible sources. Use relevant statistical data and examples to illustrate the role of media in politics and its impact on public opinion. Use appropriate terminology and contextual information to enhance the chart.	Evaluate accuracy and completeness of the chart. Evaluate ability to identify and analyze the role of media in politics and its impact on public opinion.

Mathematics

Suggested Topic	Additional Instructions	Mode of Assessment
Study the concept of fractions, including how to add, subtract, and compare them, and create a chart that shows the different types of fractions.	Create a chart that shows different types of fractions (proper, improper, mixed) with examples. Explain how to add, subtract and compare fractions.	Evaluate clarity and organization of the chart. Evaluate ability to correctly identify different types of fractions and perform operations with them.
Investigate the concept of money, including the Indian currency, and practice skills like counting money, making change, and budgeting.	Create a budget for a hypothetical monthly income. Include calculations for expenses, savings, and any additional sources of income.	Evaluate accuracy and completeness of the budget. Evaluate ability to correctly count money, make change and perform basic financial calculations.

Study the concept of measurement, including units like meters, litres, and grams, and practice skills like converting between units and solving word problems related to measurement.	Solve a set of word problems related to measurement, including unit conversions. Provide explanations and calculations for each problem.	Evaluate accuracy and completeness of the solutions. Evaluate ability to correctly convert between units and solve word problems related to measurement.
Investigate the concept of time, including units like seconds, minutes, and hours, and practice skills like telling time, solving word problems related to time, and creating a schedule of daily activities.	Create a schedule for a typical day that includes specific times for each activity. Use time conversions to show how long each activity takes.	Evaluate accuracy and completeness of the schedule. Evaluate ability to correctly tell time, solve word problems related to time, and create a schedule of daily activities.

Language

Suggested Topic	Additional Instructions	Mode of Assessment
Write a short story or a poem in English using simple words and phrases.	Include descriptive language and show creativity. Use appropriate grammar and punctuation.	Evaluate clarity and creativity of writing. Evaluate use of appropriate grammar and punctuation.
Watch a video or a movie in English and write a summary of the plot.	Include main events and characters. Use appropriate vocabulary and sentence structure.	Evaluate accuracy and completeness of summary. Evaluate use of appropriate vocabulary and sentence structure.
Create a poster or a presentation on a topic of interest with visuals and captions in English.	Include appropriate images and captions that clearly communicate the topic. Use appropriate sentence structure and grammar.	Evaluate clarity and creativity of poster/presentation. Evaluate use of appropriate visuals and captions.
Read the editorial page of any English newspaper and write the meanings of at least 5 new words.	Define each new word clearly and use it in two new sentences on your own.	Evaluate accuracy and completeness of word definitions. Evaluate use of each new word in a sentence.
Write a letter to a friend or family member in English using simple phrases and vocabulary you have learned.	Include appropriate greetings, ask about their wellbeing and share news about yourself. Use appropriate grammar and punctuation.	Evaluate clarity and organization of the letter. Evaluate use of appropriate grammar and punctuation.

Surrounding Environment

Suggested Topic	Additional Instructions	Mode of Assessment

Research and present on the traditional practices of sustainable agriculture followed by indigenous communities in West Bengal, and explore their relevance in modern times.	Use credible sources for research. Create a presentation with visuals and citations.	Evaluate quality and credibility of sources. Evaluate clarity and organization of presentation. Evaluate understanding of sustainable agriculture practices and their relevance in modern times.
Study the impact of climate change on the environment, including rising sea levels, extreme weather events, and loss of biodiversity, and suggest ways to promote sustainability and reduce the impact of climate change.	Use credible sources for research. Write a report that includes a description of the impact of climate change, its causes, and possible solutions.	Evaluate quality and credibility of sources. Evaluate ability to describe and analyze the impact of climate change. Evaluate ability to suggest appropriate solutions.
Investigate the concept of waste management, including strategies like reduce, reuse, and recycle, and suggest ways to promote waste reduction and environmental conservation in local communities.	Use credible sources for research. Create a poster that includes a description of waste management strategies and their benefits, and suggestions for promoting waste reduction in local communities.	Evaluate quality and credibility of sources. Evaluate clarity and organization of poster. Evaluate understanding of waste management strategies and their benefits. Evaluate ability to suggest appropriate solutions.
Study the impact of human activities like deforestation, mining, and pollution on the environment, and suggest ways to promote conservation and sustainable development.	Use credible sources for research. Write an essay that includes a description of the impact of human activities, its causes, and possible solutions.	Evaluate quality and credibility of sources. Evaluate ability to describe and analyze the impact of human activities on the environment. Evaluate ability to suggest appropriate solutions.
Investigate the concept of renewable energy, including strategies like solar, wind, and hydro power, and create a model that demonstrates how these technologies work.	Use credible sources for research. Create a model that demonstrates the use of renewable energy technologies. Write a short report that includes a description of the technologies used and their benefits.	Evaluate quality and credibility of sources. Evaluate effectiveness of model in demonstrating renewable energy technologies. Evaluate understanding of renewable energy technologies and their benefits.

Health and Physical Education

Suggested Topic	Additional Instructions	Mode of Assessment

Develop an awareness campaign on road safety, including safe driving practices, traffic rules and regulations, and pedestrian safety.	Conduct research and use reliable sources of information. Use simple language and visuals to convey the message. Consider the target audience and the best ways to reach them.	Evaluate clarity and effectiveness of the awareness campaign. Evaluate ability to convey information on road safety in a simple and understandable way.
Research and create an awareness campaign on cyclone management, including disaster preparedness, response, and recovery.	Conduct research and use reliable sources of information. Use simple language and visuals to convey the message. Consider the target audience and the best ways to reach them.	Evaluate clarity and effectiveness of the awareness campaign. Evaluate ability to convey information on cyclone management in a simple and understandable way.
Calculate and analyze the Body Mass Index (BMI) for a group of people, and create a project report on the importance of maintaining a healthy weight.	Collect data on height and weight of a group of people. Use a formula to calculate BMI and analyze the data. Use simple language and visuals to explain the importance of maintaining a healthy weight.	Evaluate clarity and organization of the project report. Evaluate ability to collect, analyze and interpret data. Evaluate understanding of the importance of maintaining a healthy weight.
Create an awareness campaign on the health risks of smoking, and prepare a report on the dangers of tobacco and how to quit smoking.	Conduct research and use reliable sources of information. Use simple language and visuals to convey the message. Consider the target audience and the best ways to reach them. Include information on how to quit smoking.	Evaluate clarity and effectiveness of the awareness campaign. Evaluate ability to convey information on the health risks of smoking in a simple and understandable way. Evaluate understanding of how to quit smoking.
Create a 'My Aim' chart based on your career interests and passions. Refer to the Career Guidance Portal on Banglar Shiksha for the same.	Create a chart that includes your career interests and passions, along with information on the education, scholarships and training required for different career paths. Refer to the Career Guidance Portal on Banglar Shiksha for information and guidance.	Evaluate clarity and organization of chart. Evaluate understanding of different career paths and required education and training.

Projects for Grade 11 & 12 (16-17 year old)

Science

Suggested Topic	Additional Instructions	Mode of Assessment
Investigate the properties of acids and bases and their reactions with different materials.	Safety precautions must be taken when handling chemicals. Students should conduct experiments with adult supervision. Students should record their observations in a laboratory notebook, including purpose, materials and methods, observations and results, and a conclusion.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to acids and bases.
Explore the principles of electrochemistry by constructing a simple battery or electroplating a metal object.	Students should follow instructions carefully when working with electrical circuits or chemicals. Students should record their observations in a laboratory notebook, including purpose, materials and methods, observations and results, and a conclusion.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to electrochemistry.
Investigate the process of DNA extraction and create a model of the double helix structure of DNA.	Safety precautions must be taken when handling chemicals. Students should conduct experiments with adult supervision. Students should create a model of the double helix structure of DNA using everyday materials such as pipe cleaners or candy. Students should record their observations in a laboratory notebook, including purpose, materials and methods, observations and results, and a conclusion.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to DNA extraction and the structure of DNA.

Study the properties of nanoparticles and their potential applications in medicine and technology.	Students should research the properties of nanoparticles and their potential applications in medicine and technology. Students should record their findings in a report, poster, or presentation, including purpose, materials and methods, observations and results, and a conclusion.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to nanoparticles and their potential applications.
Investigate the effects of radiation on living organisms and the environment, and report your findings.	Safety precautions must be taken when handling radioactive materials. Students should conduct experiments with adult supervision or research the effects of radiation on living organisms and the environment. Students should record their findings in a report, poster, or presentation, including purpose, materials and methods, observations and results, and a conclusion.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to radiation and its effects on living organisms and the environment.
Pick a topic from below and learn more about it from your textbook or the Internet. Make a chart/model describing what you learned. • Rocks and minerals and their contribution to human civilization • Biological organism and their diverse shelter • Melting and boiling points of different pure	Create a chart, model or other visual representation of your findings. Organize information in a clear and logical manner. Include information on the topic, sources used and any important data or facts. Use appropriate vocabulary and terminology.	Evaluate clarity and organization of chart/model. Evaluate accuracy and completeness of information presented. Evaluate understanding of the topic and ability to apply knowledge to create a visual representation.

solid matter and its importance in industries • Impact of heat on different physiological processes of biological world		

Social Science

Suggested Topic	Additional Instructions	Mode of Assessment
Study the different rulers of India, including the Mughals, the British, and independent India's first Prime Minister Jawaharlal Nehru.	Use a variety of sources, including textbooks, articles, and videos, to research each ruler. Take detailed notes on their background, accomplishments, and impact on Indian history and society.	Evaluate clarity and organization of writing/presentation. Evaluate ability to accurately research and analyze historical information. Evaluate understanding of the impact of historical figures on Indian society.
Investigate the role of geography on the agricultural patterns of tropical countries, and create a report that discusses the impact of climate, soil, and topography on agriculture.	Use a variety of sources, including textbooks, articles, and videos, to research the impact of geography on agriculture. Take detailed notes on the factors that affect agriculture in tropical countries. Organize your report in a clear and logical manner.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on research findings. Evaluate understanding of the impact of geography on agricultural patterns.
Study the different types of economic systems, including capitalism, socialism, and communism, and create a chart that shows the key features of each.	Use a variety of sources, including textbooks, articles, and videos, to research the key features of each economic system. Create a chart that clearly shows the similarities and differences between each system.	Evaluate clarity and organization of chart/presentation. Evaluate ability to accurately research and analyze economic systems. Evaluate understanding of the key features of different economic systems.
Research and present on the impact of globalization on India's economy and society.	Use a variety of sources, including textbooks, articles, and videos, to research the impact of globalization on India's economy and society. Take detailed notes on the positive and negative impacts of globalization. Organize your presentation	Evaluate clarity and organization of presentation. Evaluate ability to draw conclusions based on research findings. Evaluate understanding of the impact of globalization on India's economy and society.

	in a clear and logical manner.	
Explore the issue of gender inequality in India, and suggest ways to promote gender equity and empowerment.	Use a variety of sources, including textbooks, articles, and videos, to research gender inequality in India. Take detailed notes on the causes and effects of gender inequality, as well as potential solutions. Organize your report in a clear and logical manner.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on research findings. Evaluate understanding of the issue of gender inequality in India, as well as potential solutions for promoting gender equity and empowerment.

Mathematics

Suggested Topic	Additional Instructions	Mode of Assessment
Study the concept of geometry, including shapes like squares, rectangles, and triangles, and practice skills like calculating perimeter and area, and solving word problems related to geometry.	Review basic concepts in geometry, such as points, lines, angles, and polygons. Use everyday objects to identify and classify different shapes. Practice calculating perimeter, area, and volume of simple shapes. Solve word problems related to geometry.	Evaluate ability to classify shapes and identify their properties. Evaluate accuracy of calculations of perimeter, area, and volume. Evaluate ability to apply geometry concepts to solve word problems.
Investigate the concept of data analysis, including skills like collecting data, organizing data, creating graphs and charts, and interpreting data to draw conclusions.	Choose a topic to investigate and collect data using surveys, experiments, or other methods. Organize the data into tables and create appropriate graphs and charts. Analyze the data to draw conclusions and make predictions.	Evaluate ability to collect and organize data. Evaluate accuracy and clarity of graphs and charts. Evaluate ability to draw conclusions and make predictions based on data analysis.
Explore calculus concepts such as derivatives, integrals, and rates of change, and apply them to real-world problems.	Review basic concepts in algebra and functions. Learn about limits, derivatives, integrals, and rates of change. Apply these concepts to real-world problems, such as optimization, related rates, and motion problems.	Evaluate understanding of calculus concepts. Evaluate ability to apply calculus concepts to real-world problems.
Investigate the concept of probability, including calculating odds and expected values, and use simulations to explore	Review basic concepts in probability, such as sample space, events, and probability rules. Learn about conditional probability, expected value, and odds. Use simulations to	Evaluate understanding of probability concepts. Evaluate ability to apply probability concepts to real-world situations.

probability in real-world situations.	explore probability in real-world situations.	
Study the concept of vectors, including vector addition and subtraction, dot and cross products, and their applications in physics and engineering.	Review basic concepts in algebra and geometry. Learn about vectors and their properties, including vector addition, subtraction, dot product, and cross product. Explore the applications of vectors in physics and engineering, such as displacement, velocity, and force.	Evaluate understanding of vector concepts. Evaluate ability to apply vector concepts to physics and engineering problems.

Language

Suggested Topic	Additional Instructions	Mode of Assessment
Write a book review of a novel or a memoir in English.	Choose a book that you have read recently. Write a review that includes a brief summary of the book, your opinion on its themes and characters, and recommendations for who might enjoy reading it. Use appropriate grammar and vocabulary.	Evaluate clarity and organization of writing. Evaluate ability to analyze and express opinions on literature. Evaluate language proficiency.
Create a vlog or a podcast in English on a topic of interest.	Choose a topic that you are passionate about and create a vlog or a podcast that discusses it. Include an introduction, key points, and a conclusion. Use appropriate grammar and vocabulary.	Evaluate clarity and organization of the vlog/podcast. Evaluate ability to express ideas and opinions on a topic. Evaluate language proficiency.
Watch a TED talk or a short documentary in English and write a summary of the main points.	Choose a TED talk or a short documentary that interests you. Watch it carefully and take notes on the main points. Write a summary that includes the key ideas and your opinions on them. Use appropriate grammar and vocabulary.	Evaluate clarity and accuracy of the summary. Evaluate ability to identify and analyze main points. Evaluate language proficiency.
Write a personal reflection or a journal entry in English.	Reflect on a recent experience or event that had a significant impact on you. Write a personal reflection or journal entry that explores your thoughts and feelings on the experience. Use appropriate grammar and vocabulary.	Evaluate clarity and organization of the reflection/journal entry. Evaluate ability to express emotions and thoughts clearly. Evaluate language proficiency.

Participate in a group discussion or a debate in English on a current issue.	Choose a current issue that interests you and participate in a group discussion or a debate on the topic. Use appropriate language and engage in active listening and constructive dialogue.	Evaluate ability to communicate effectively in a group setting. Evaluate ability to listen actively and participate constructively. Evaluate language proficiency.

Surrounding Environment

Suggested Topic	Additional Instructions	Mode of Assessment
Study the impact of climate change on the environment, including rising sea levels, extreme weather events, and loss of biodiversity, and suggest ways to promote sustainability and reduce the impact of climate change.	Research and gather data from reliable sources. Use appropriate scientific vocabulary. Include purpose, materials and methods, observations and results, and a conclusion. Suggest practical ways to promote sustainability and reduce the impact of climate change.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to climate change and sustainability.
Investigate the concept of waste management, including strategies like reduce, reuse, and recycle, and suggest ways to promote waste reduction and environmental conservation in local communities.	Research and gather data from reliable sources. Use appropriate scientific vocabulary. Include purpose, materials and methods, observations and results, and a conclusion. Suggest practical ways to promote waste reduction and environmental conservation in local communities.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to waste management and environmental conservation.
Study the impact of human activities like deforestation, mining, and pollution on the environment, and suggest ways to promote conservation and sustainable development.	Research and gather data from reliable sources. Use appropriate scientific vocabulary. Include purpose, materials and methods, observations and results, and a conclusion. Suggest practical ways to promote conservation and sustainable development.	Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to environmental impact and sustainable development.

Investigate the concept of renewable energy, including strategies like solar, wind, and hydro power, and create a model that demonstrates how these technologies work.	Research and gather data from reliable sources. Use appropriate scientific vocabulary. Create a model that demonstrates how renewable energy technologies work.	Evaluate clarity and organization of writing/presentation. Evaluate ability to create an accurate and functional model. Evaluate understanding of scientific concepts related to renewable energy.
Create a 'My Aim' chart based on your career interests and passions. Refer to the Career Guidance Portal on Banglar Shiksha for the same.	Create a chart that includes your career interests and passions, along with information on the education and training required for different career paths. Refer to the Career Guidance Portal on Banglar Shiksha for information and guidance.	Evaluate clarity and organization of chart. Evaluate understanding of different career paths and required education and training.

Health and Physical Education

Suggested Topic	Additional Instructions	Mode of Assessment
Develop an awareness campaign on drowning prevention and first aid measures, and create a guide on basic water safety and rescue techniques.	Conduct research on drowning prevention and first aid measures. Develop creative awareness campaign posters or pamphlets, and create a guide on basic water safety and rescue techniques.	Evaluate creativity and effectiveness of the awareness campaign. Evaluate completeness and accuracy of the guide.
Research and create a first aid guide for snake bites, including preventative measures, first aid steps, and emergency response.	Conduct research on snake bites, including preventative measures, first aid steps, and emergency response. Create a detailed guide on snake bites, including diagrams and clear instructions.	Evaluate accuracy and completeness of the guide. Evaluate ability to research and present information effectively.
Research and create a presentation on the causes of heart failure, and measures to prevent and treat it.	Conduct research on the causes, prevention, and treatment of heart failure. Create a detailed presentation with clear and accurate information. Include appropriate diagrams and statistics as necessary.	Evaluate accuracy and completeness of the presentation. Evaluate ability to research and present information effectively.
Develop a first aid guide for babies and minors, covering common injuries, illnesses, and emergencies.	Conduct research on common injuries, illnesses, and emergencies for babies and minors. Create a detailed	Evaluate accuracy and completeness of the guide. Evaluate ability to research

	guide with clear instructions and appropriate diagrams.	and present information effectively.
Develop an awareness campaign on organ donation, including its importance, myths and facts, and ways to register as a donor.	Conduct research on organ donation, including its importance, myths and facts, and ways to register as a donor. Develop creative awareness campaign posters or pamphlets with accurate information.	Evaluate creativity and effectiveness of the awareness campaign. Evaluate accuracy and completeness of the information provided.