

Summer Project Topics–Teachers’ Guideline

Note:

1. The topics below are illustrative, not exhaustive.
2. The subject teachers may use these topics or modify them as per need.
3. 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 |
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| <p>Nature Exploration:</p> <ul style="list-style-type: none"> • 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. | <p>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. Once Madrasahs reopen, students can be asked to share their works with the class.</p> | <p>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.</p> |

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| <p>Art and Creativity:</p> <ul style="list-style-type: none"> • Drawing or painting, finger printing, sessions with different themes like animals, nature, or favorite 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. | <p>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. Once Madrasahs reopen, students can be asked to share their works with the class.</p> <p>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.</p> | <p>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.</p> |
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Projects for Class 3 & 4

| Suggested Topic | Additional Instructions | Mode of Assessment |
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| <p>Literacy and Language:</p> <ul style="list-style-type: none"> 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. | <p>These activities can be done by students themselves. Once schools reopen, students can be asked to share their work with the class.</p> | <p>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.</p> |
| <p>Art and Creativity:</p> <ul style="list-style-type: none"> 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. | <p>These activities can be done by students themselves. Once schools reopen, students can be asked to share their work with the class.</p> <p>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.</p> | <p>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.</p> |

Projects for Class 5 & 6

Science

| Suggested Topic | Additional Instructions | Mode of Assessment |
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| <p>Conduct a simple experiment at home to investigate how different liquids (e.g. water, oil,</p> | <p>Write findings as a report, poster or a presentation. Organize findings in a clear and logical manner. Use Appropriate scientific</p> | <p>Evaluate clarity and organization of writing/presentation.</p> |

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| vinegar) interact and write up your findings. | vocabulary. Include purpose, materials and methods, observations and results, and a conclusion. | 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 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. <ul style="list-style-type: none"> • Choice of food of different animals • Role of water in Biological world | 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 visual representation. |

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| <ul style="list-style-type: none"> • 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 | | |
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Social Science

| Suggested Topic | Additional Instructions | Mode of Assessment |
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| 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 methods, observations and results, and a conclusion. Use appropriate scientific vocabulary. | Evaluate clarity and organization of writing. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts. |

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| 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 |
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| Practice basic arithmetic skills by playing a set of fun math games. | Create a set of mathematics 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 | Create a set of word problems that involve basic arithmetic operations and everyday life in India. You can also look | Evaluate the ability to identify and apply the appropriate arithmetic operation and |

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| Solving word problems Related to everyday life in India. | Up problems in magazines or newspapers. | Solve the word problems correctly. |
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Language

| Suggested Topic | Additional Instructions | Mode of Assessment |
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| Create a picture dictionary by drawing and labeling pictures of objects or animals with their corresponding Arabic/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. |
| Create a comic strip using simple Arabic/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 Arabic/English. | Evaluate clarity of plot and effectiveness of Arabic/English usage. |
| Write a short paragraph about your favorite food, hero or hobby in Arabic/English. | Use at least 10 sentences. Written document, using proper sentence structure and vocabulary. | Evaluate clarity of writing and accuracy of Arabic/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 |
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| Go on a nature walk or hike and collect items that represent different seasons or weather conditions. | Create a collection of items and organize them according to 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 clarity and organization of collection. 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 | Create a visually appealing poster or short video that educates people about the harmful effects of litter on the Environment and encourages | Evaluate clarity and effectiveness of communication. Evaluate accuracy and completeness Of information presented. |

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| People to pick up trash and dispose of it properly. | 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 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 |
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| Research an infectious disease and prepare a report on its causes, symptoms, prevention, and treatment. | 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 | Evaluate clarity and organization of writing. Evaluate accuracy and completeness of information presented. Evaluate ability to apply knowledge of scientific concepts to the topic. |

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| | Vocabulary and terminology. Cite sources used in the report. | |
| 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 |
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| Investigate the properties of light by exploring how it travels and reflects, and create a model of a periscope or a kaleidoscope. | Write a report or create a model of a periscope or kaleidoscope. Include information on the properties of light, sources used and any important data or facts. Use appropriate vocabulary and terminology. | Evaluate understanding of the properties of light and 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 rock and mineral samples with labels. Organize information in a clear | Evaluate organization and completeness of rock and Mineral collection and labels. |

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| <p>Create a collection of samples with labels.</p> | <p>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.</p> | <p>Evaluate accuracy and completeness of information presented. Evaluate use of appropriate vocabulary and terminology.</p> |
| <p>Explore the concept of renewable energy and create a model of a solar cooker or windmill.</p> | <p>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.</p> | <p>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.</p> |
| <p>Investigate the different parts of a plant and their functions, and create a diagram of a plant cell.</p> | <p>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.</p> | <p>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.</p> |
| <p>Study the properties of magnets and create a model of a simple motor.</p> | <p>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.</p> | <p>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.</p> |
| <p>Pick a topic from below and learn more about it from your textbook or the Internet. Make a chart/model describing what you learned.</p> <ul style="list-style-type: none"> • Floatation and buoyancy of different objects and its importance in | <p>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.</p> | <p>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.</p> |

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| <p>Different areas of life</p> <ul style="list-style-type: none"> • 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 | | |
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Social Science

| Suggested Topic | Additional Instructions | Mode of Assessment |
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| <p>Investigate the impact of urbanization on the environment in West Bengal, and suggest ways to promote sustainable development.</p> | <p>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.</p> | <p>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.</p> |
| <p>Study the Indian freedom struggle and create a chart that shows the different phases of the movement.</p> | <p>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.</p> | <p>Evaluate clarity and organization of chart. Evaluate accuracy and completeness of information presented. Evaluate understanding of the Indian freedom Struggle and ability to</p> |

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| | | 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 |
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| Use simple geometry to design a maze or obstacle course and have friends or family members try to complete it. | Use graph paper to sketch out a plan for the maze or obstacle course. Include measurements and angles used. Provide clear instructions for completing the maze or obstacle course. Be creative and have fun! | Evaluate creativity and complexity of the maze or 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 | Research and identify different Types of triangles. Create a chart | Evaluate accuracy and Completeness of information |

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| triangles, including their angles and sides, and create a chart that shows the different types of triangles. | That includes information on the number of sides, angles, and properties of each type of triangle. Use appropriate mathematical vocabulary and terminology. | 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 shows cases 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 |
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| Conduct an interview with a family member or Friend in Arabic/English, | Choose a family member or friend to interview and prepare a list of questions beforehand. Record the conversation using a | Evaluate clarity and accuracy of summary. Evaluate ability to conduct an interview and use |
| Record it and write a summary of the conversation. | 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. | Appropriate Arabic/English vocabulary and grammar. |
| Read a book or a short story in Arabic/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 Arabic/English vocabulary and grammar. |
| Read the editorial page of any Arabic/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 Arabic/English vocabulary and grammar. |
| Write a letter to a friend or family member in Arabic/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 Arabic/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 Arabic/English vocabulary and grammar and convey personal information effectively. |

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| Research a famous tourist destination and write a travel guide in Arabic/English. | Choose a famous tourist destination and research information about it. Write a travel guide in Arabic/English, including information on attractions, accommodations, and local customs. Use appropriate vocabulary and grammar. Include images and / or maps, if possible. | Evaluate clarity and accuracy of travel guide. Evaluate ability to research and organize information, use appropriate Arabic/English vocabulary and grammar, and effectively convey information about a tourist destination. |
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Surrounding Environment

| Suggested Topic | Additional Instructions | Mode of Assessment |
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| 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. |

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| Investigate the impact of climate change on the Sundarbans mangrove forest, a UNESCO World Heritage Site located in West Bengal, and create a poster that highlights the issue. | 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 suggestions for reducing the impact of climate change on the forest. | 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. |
| Investigate the local flora and fauna of West Bengal, including | Include information on the different types of flora and fauna studied. Provide accurate Descriptions and images of | Evaluate clarity and organization of field guide. Evaluate accuracy and completeness of information Presented .Evaluate |
| birds, insects, and plants, and create a field guide that showcases different species. | different species. Use appropriate scientific vocabulary. Organize the field guide in a clear and logical manner. | Understanding of the local flora and fauna of West Bengal. |

Health and Physical Education

| Suggested Topic | Additional Instructions | Mode of Assessment |
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| 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. |

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| <p>Create a project on consumer protection, including consumer rights, responsibilities, and ways to avoid fraud and scams.</p> | <p>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.</p> | <p>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.</p> |
| <p>Create an awareness campaign on the negative impact of using plastic carry bags, and develop an awareness campaign promoting eco-friendly alternatives.</p> | <p>Include information on the environmental impact of plastic bags, alternatives available and ways to reduce plastic usage. Design campaign materials such as posters, pamphlets or social media posts. Use age-</p> | <p>Evaluate the effectiveness of the campaign in promoting awareness 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.</p> |
| | <p>Appropriate language and graphics.</p> | |
| <p>Create a project on Awareness campaign For using plastic carry bags.</p> | <p>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.</p> | <p>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.</p> |
| <p>Create a 'My Aim' Chart based on your Career interests and passions. Refer to The Career Guidance Portal on Banglar Shiksha for the same.</p> | <p>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.</p> | <p>Evaluate clarity and organization of chart. Evaluate understanding of Different career paths and required Education and training.</p> |

Projects for Class 9 & 10

Science

| Suggested Topic | Additional Instructions | Mode of Assessment |
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| 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 experiment multiple times at different temperatures to get more accurate results. | 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. |
| 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. |

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| <p>Study the properties of light and create a model of a telescope or a microscope.</p> | <p>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.</p> | <p>Evaluate accuracy and completeness of the model. Evaluate ability to explain the model and the properties of light.</p> |
| <p>Investigate the factors that affect the strength of an electromagnet and report your findings.</p> | <p>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 changing different factors such as the number of coils, the amount of</p> | <p>Evaluate clarity and organization of writing/presentation. Evaluate ability to draw conclusions based on findings. Evaluate understanding of scientific concepts related to electromagnetism.</p> |
| | <p>current, and the type of core material for more detailed observations.</p> | |

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| <p>Pick a topic from below and learn more about it from your text book or the Internet. Make a chart/model describing what you learned.</p> <ul style="list-style-type: none"> • 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 | <p>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.</p> | <p>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.</p> |
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Social Science

| Suggested Topic | Additional Instructions | Mode of Assessment |
|---|---|---|
| <p>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.</p> | <p>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.</p> | <p>Evaluate accuracy and completeness of the chart. Evaluate ability to identify and analyze the impact of the monsoon on India's economy and infrastructure.</p> |
| <p>Investigate the impact of the Partition of India on the country's history, politics, and society, and create a poster that highlights the issue.</p> | <p>Conduct research on the topic using credible sources. Use relevant images and text to highlight the key aspects of the Partition and its impact on India's history, politics, and society.</p> | <p>Evaluate effectiveness and creativity of the poster. Evaluate ability to identify and analyze the impact of the Partition on India's history, politics, and society.</p> |

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| 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. |

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| Study the concept of measurement, including units like meters, liters , and grams, and practice skills like Converting between units and | Solve a set of word problems related to measurement, including unit conversions .Provide Explanations and | Evaluate accuracy and completeness of the solutions. Evaluate ability to correctly convert between Units and solve word |
| Solving word problems Related to measurement. | Calculations for each problem. | 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 Arabic/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 Arabic/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 Arabic/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 Arabic/English newspaper and write the meanings of at least 5newwords. | 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 Arabic/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, | 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 |
| And explore their relevance in modern times. | | 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 |
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| 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 | Evaluate clarity and effectiveness of the awareness campaign. Evaluate ability to convey information on road safety in a simple and Understandable way. |
| | Audience and the best ways To reach them. | |
| 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 (Fazil 1st year & 2nd Year)

Language

| Suggested Topic | Additional Instructions | Mode of Assessment |
|---|---|--|
| Write a book review of a novel or a memoir in Arabic/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 Arabic/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 Arabic/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 Arabic/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 Arabic/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 | Evaluate ability to communicate effectively in a group setting. Evaluate ability To listen actively and |
| | Language and engage in active Listening and constructive dialogue. | 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 | Research and gather data from reliable sources .Use appropriate scientific vocabulary. Create a Model that demonstrates | Evaluate clarity and organization of writing/presentation. Evaluate ability to create an accurate and functional model. Evaluate Understanding of scientific |

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| Model that Demonstrates how these technologies work. | How renewable energy technologies work. | 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. |

The Suggested Topics and mode of Assessment of the subjects namely 1. Theology 2. Islamic Studies 3. Islamic History for Fazil (1st year & 2nd year) have been given in separate file.