

LAKSHMIPAT SINGHANIA ACADEMY

SESSION (2022-23)

PROJECT PLAN

CLASS- IX

ENGLISH

TOPIC : DIGITAL LITERACY

FULL MARKS—20

Digital literacy- We are living in times when we are exposed to a lot of threat in the cyber world. Our personal information is at risk and nothing is hidden. In such times, it is imperative that we learn to protect ourselves from such evils as phishing, hacking and so on.

The project will consist of -

1. **PowerPoint presentation:** This will be a group activity. A group of 5 or 6 students will prepare a presentation in PowerPoint, explaining the details of their project, exploring the ideas:
 - a. What is Digital literacy?
 - b. The threats we are exposed to
 - c. How to combat such evil.

The entire class will be divided into 5 or 6 groups, wherein the team leader will present and explain their PPT.

The students will prepare 8-10 slides including, bibliography, names of the team members and what they learnt in the process.

Marks Distribution (out of 20)

PowerPoint

Content-8

Presentation-8

Creativity-4

LEARNING OBJECTIVE:

- Students have learnt to compose with clarity, coherence and precision.

LEARNING OUTCOME:

- Students will be able to understand the need to be aware
- Students will develop a collaborative approach and learn to work as a team and value time.
- In the process of preparing the PPT, the students will learn the Dos and Don'ts of technology
- Students will learn to appreciate each other's emotions and feelings.

HINDI

TOPIC: डिजिटल साक्षरता

FULL MARKS—20

डिजिटल रूप से सशक्त राष्ट्र के निर्माण की दिशा में डिजिटल साक्षरता की अहम भूमिका है। बीते दो सालों में सरकार द्वारा डिजिटल भारत के स्वप्न को साकार करने की दिशा में कई महत्वपूर्ण कदम उठाए गए हैं। जिसका प्रमाण हमें हमारे देश के स्वास्थ्य मंत्रालय की विभिन्न योजनाओं से प्राप्त होता है। चाहे वह आयुष्मान भारत मिशन हो या महामारी की रोकथाम के लिए प्रयुक्त किए गए विभिन्न एप। ऐसे ही देश की स्वास्थ्य सुविधाओं को मजबूत करने के लिए चलाए गए किन्हीं दो डिजिटल अभियान का उल्लेख करते हुए उसकी उपयोगिता और सफलता पर एक सचित्र पत्रिका या प्रस्तुतीकरण तैयार करें।

LEARNING OBJECTIVE :

- समसामयिक विषयों के प्रति सजगता का विकास
- सृजनात्मक लेखन का विकास
- स्थितियों को परखने एवं उपयुक्त भाषा प्रयोग के कौशल का विकास

LEARNING OUTCOME:

- सामाजिक कर्तव्यों के प्रति सजगता को अभिव्यक्त करने की क्षमता का विकास।
- सामाजिक भूमिका के महत्व की भावनाओं को अनुभूत एवं अभिव्यक्त करने में सक्षम होंगे।
- अपने विचारों को क्रमबद्ध एवं तर्कसंगत विधि से प्रकट करने में सक्षम होंगे।

Marks distribution (अंक विभाजन) : 20

- परिस्थितियों के प्रभावी एवं सृजनात्मक वर्णन पर - 08
- भाषा की उपयुक्तता पर - 08
- प्रभावी प्रस्तुति पर - 04

MATHEMATICS & MUSIC

"There is geometry in the humming of the strings, there is music in the spacing of the spheres." — Pythagoras

Counting, rhythm, scales, intervals, patterns, symbols, harmonies, time signatures, overtones, tone, pitch. The notations of composers and sounds made by musicians are connected to mathematics. The next time you hear or play classical, rock, folk, religious, ceremonial, jazz, opera, pop, or contemporary types of music, think of what mathematics and music have in common and how mathematics is used to create the music you enjoy.

Do a research work and prepare a power-point presentation of minimum 10 slides and answer the following questions:

1. Give an introduction between Mathematics and Music?
2. Write the historical connection between Mathematics and Music.
3. Write in brief about the contribution of Mathematician (Pythagoras, Fibonacci) in Music through Mathematics

Learning outcome: Students will learn how Mathematics is deeply involved in Music.

Marking Scheme:

Content: 12 Marks

Presentation: 8 marks

SCIENCE

BIOLOGY

The **Amazon rainforest**, alternatively, the **Amazon jungle** or **Amazonia**, is a [moist broadleaved tropical rainforest](#) in the [Amazon biome](#) that covers most of the [Amazon basin](#) of South America. This basin encompasses 7,000,000 km² (2,700,000 sq mi), of which 5,500,000 km² (2,100,000 sq mi) is covered by the [rainforest](#). This region includes territory belonging to nine nations and 3,344 formally acknowledged [indigenous territories](#).

Prepare an app for the foresters on the following topics so that their search on amazon becomes easy-

- 1 .Prepare an App on **Geoglyphs of Amazon**
2. Prepare an App on **MARICOXI** of Amazon
3. Prepare an App on **BIODIVERSITY** of Amazon
4. Prepare an App on **TREE CANOPY** of Amazon
5. Prepare an App on **AMAZON RIVER**

Group 1 and 2 will do Question 1

Group 2 and 3 will do question 2

Group 3 and 4 will do question 3

Group 4 and 5 will do question 4

Group 6 will do question 5

Presentation 2 marks

Content -3 marks

Resource-3 marks

Learning objective: Students will –

- Have an in-depth knowledge of the Amazon rain forest.
- Learn about geometric ditches formed in Amazon
- Learn about its biodiversity

Learning outcome: Students will be -

- Enriched with the knowledge of different mysterious aspects of Amazon rain forest.

PHYSICS

As the flora, fauna and other mineral and natural resources of Amazon forest is not yet explored thoroughly. And the research work is still on, prepare an App on the following topics:

- I) **Remote sensing satellites** used for procuring data from dense non-reachable areas of Amazon rainforest – name of dedicated satellites for this purpose, their working principle, concept of geo-stationary satellite, relevant pictures, involvement of NASA in this work.
- II) **Controlling of climate and rainfall in Amazon rainforest** – methods and technologies used for this purpose, utility of changing climate.

Group 1, 3, 5 will work on Question number I)

Group 2, 4, 6 will work on Question number II)

Presentation - 2 marks

Content - 2 marks

Resource - 2 marks

Learning objective: Students will

- research on Remote sensing satellites, geo-stationary satellite and its working principle.
- study on controlling climate and rainfall in amazon forest.

Learning outcome: Students will be

- digitally equipped for making apps
- gain knowledge about the working of remote sensing satellites
- know about the concept of controlling the climate in a certain place.

CHEMISTRY

- *The Brazilian Amazon has been transformed from a carbon dioxide sink to a source for new emissions over the past two decades, a new study shows.*
- The Brazilian Amazon has been transformed by fires and deforestation into a net emitter of carbon dioxide, rather than a sink absorbing the greenhouse gas, with dangerous implications for global warming, according to unprecedented research that tracked carbon data across the entire Amazon through satellite mapping data.
- .The Amazon rainforest in South America has large quantities of copper, tin, nickel, bauxite, manganese, iron ore and gold, making it attractive to mining companies all around the world. The impact mining has on deforestation of the Amazon rainforest is much greater than previously thought, according to a new study by the University of Vermont.

Prepare an App on the following topics:

1. Amazon rainforest has been converted from a carbon di oxide sink to a carbon di oxide source.
2. Major components of mining's huge environmental footprint in the Amazon, and ways to improve the situation.

Group 1, 3, 5 will work on Question number 1

Group 2, 4, 6 will work on Question number 2

Presentation - 2 marks

Content - 2 marks

Resource - 2 marks

Learning objective: Students will –

- Have an in-depth knowledge of the Amazon rain forest.
- Learn about different metals found in Amazon
- Learn about its carbon footprint

Learning outcome: Students will be -

- Enriched with the knowledge of different aspects of Amazon rain forest.
- Develop awareness about conservation of natural resources.

HISTORY

DIGITAL LITERACY AND DEMOCRACY

How does democracy fare when digital technology is added to the picture? Weaving technology and democracy together can be a boon to democracy if it is *informed* technology. The primary aim of technology in the service of democracy is not merely to make it easier or more convenient but to improve society's *civic intelligence*, its ability to address the problems it faces effectively *and* equitably.

LEARNING OBJECTIVE-

Developing a digital literacy strategy to make sure that STUDENTS are equipped with the skills and knowledge they need to engage critically with information in the digital age.

METHODOLOGY

The class is divided in small groups (5 students) and every group takes a THEME/TOPIC . Each group discusses and agrees about some issues of common interest that they want to approach together and a number of activities that are going to take place. They could be linked with students' rights, challenges, skills and competences, as well as with procedures, functions and practices of the school that are connected with its democratic character.

CHOOSE ANY 5 ACTIVITIES FROM BELOW TO INCLUDE IN YOUR PROJCT, such as:

- Survey
- Interviews
- Quizzes
- Recordings
- Social media posts and reactions
- Memes
- Creative compositions
- Videos
- Songs
- Photos
- Drawings/paintings/ DIGITAL CARTOONING
- Short stories/STORY BOARD(DIGITAL)
- NEWS PAPER REPORTS.

ALLOCATION OF MARKS- 10 PRESENTATION -5 RESEARCH -5

• THEMES /TOPICS

1)The core concepts of democracy, representation, elections and tenure of government will be greatly undermined by artificial intelligence.

2) More access to data and records more quickly can help citizens be informed and engaged, however more information can flood the market, and people have limited capacity/time/energy to digest information.

3) Governments, enlightened leaders and activists will help steer policy and democratic processes to produce better democratic outcomes

4) “Democracy will become more transparent as technology advances. Citizens will have greater insight into the actions and omissions of elected representatives.

5) “Technology-enabled disinformation is corrosive to democratic processes and institutions

6) “Social media strengthens democratic institutions by giving a greater voice to a wider range of people, however, it also strengthens malicious actors such as political operators, criminals, terrorists and other socially disruptive forces.

REFERENCE:

https://link.springer.com/content/pdf/10.1007/978-0-387-35609-9_2.pdf- DOES the internet promote democracy?

<https://www.independent.co.uk/voices/comment/how-the-internet-is-transforming-democracy-8411474.html><https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7343248/>- Social Media Effects: Hijacking Democracy and Civility in Civic Engagement

<https://freedomhouse.org/issues/technology-democracy>

<https://www.theglobalist.com/democracy-technology-innovation-society-internet/>

<https://www.opendemocracy.net/en/democraciaabierta/does-digital-democracy-improve-democracy/>

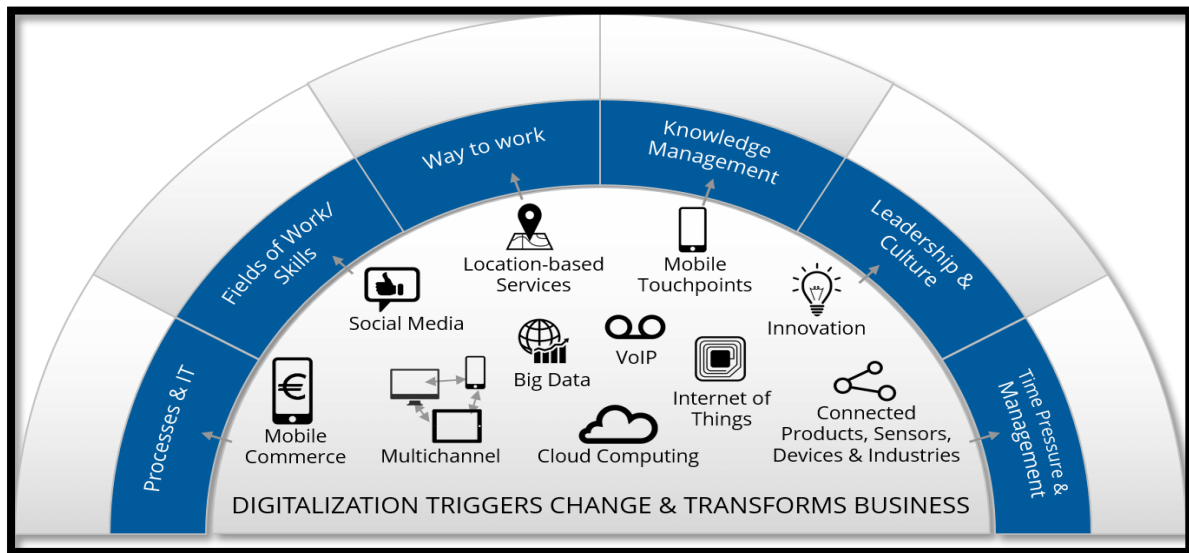
GEOGRAPHY

Topic: Digital Technology

F.M: 10

Digital technologies are electronic tools, systems, devices, and resources that generate store, or process data. Well-known examples include social media, online games, multimedia, and mobile phones.

Digital learning is any type of learning that uses technology. It can happen across all curriculum learning areas. The latest technology has covered the way for multi-functional tools such as the smartwatch and the smartphone. Computers and laptops are gradually getting quicker, more convenient, and higher-powered than ever before. With all of these innovations, technology has also made our lives simpler, faster, enhanced, convenient, comfortable, accurate, and more enjoyable.



GROUP: The work is divided into 5 groups.

GROUP 1: Roll No. 1 – 7 (**MENTIMETER** – Word cloud on different Geographical terminologies from **chapter 1, India – Size & Location**).

GROUP 2: Roll No. 8 – 14 (**NEARPOD** - Create a lesson to show Pie chart depicting male & female literacy rates in states of Kerala, Tripura, Punjab, Rajasthan, Madhya Pradesh, and West Bengal).

GROUP 3: Roll No. 15 – 21 (**QUIZZ** – On physical features like mountains, plains, plateaus, and deserts.).

GROUP 4: Roll No. 22 – 28 (**WHITEBOARD/JAMBOARD** – Integrate sports with **Natural vegetation** and the **Climate of India**, sighting 2 examples each).

GROUP 5: Roll No. 29 – 35 (**KAHOOT** – Drainage in India).

PROJECT FORMAT AND MARKS DISTRIBUTION:-

- ✓ PPT (Maximum 8 slides including index, introduction, reference and bibliography).
- ✓ Use screen shots for applications like Nearpod etc
- ✓ **Content** – 3 marks.
- ✓ **Presentation** – 3 marks.
- ✓ **Relevance to the topic** – 2 marks.
- ✓ **Team Work** – 2 marks.

LEARNING OBJECTIVE: The learning objectives include –

- ✓ Stay up to date with existing technologies

- ✓ Properly communicate in an online environment
- ✓ Manage your ideas in an online environment
- ✓ Manage teams leveraging technology

LEARNING OUTCOME: The learning outcome will include –

- ✓ Independent research work.
- ✓ Collaboration.
- ✓ Adapting to new technology.

LINKS (for reference):

<https://www.mentimeter.com/>

<https://nearpod.com/>

<https://www.tutorialspoint.com/whiteboard.htm>

<https://quizizz.com/?fromBrowserLoad=true>

GOOGLE JAMBOARD

<https://kahoot.com/>

ARTIFICIAL INTELLIGENCE

Full Marks: 20

Learning Objective:-

1. To be fully digitally literate, one must be a producer of content.
2. The lesson draws on the flexibility of language and a range of learning technologies to support process, research, presentation development, and dissemination.

Learning Outcome: -

1. To be part of the community of the digitally literate, by being a producer of content.
2. Flexibility with technology and app choices is critical for ensuring the completion of the final projects.

Activity: -

To recreate in English a folk story found in any one of your home language.



The group can choose possible end products that would be suitable for presenting the story of choice in digital form.

Additional requirements:

1. Short description of the reason behind the choice of story.

Submission Procedure

1. Save the file in any cloud storage / YouTube.
2. Create a word document to mention the name of the team members, paste the link and add the additional requirement as mentioned above.
3. Turn in the word file.

The group can consider a variety of sources of information for their presentation, including the internet, books, family members, community elders, experts from local community-based organizations, and museums.

Important Note

1. Late submission will not be accepted at all.
2. Each team will comprises of 3 consecutive roll numbers. E.g. members of group1 will be Roll number 1, 2, 3. The last group might have an imbalance which will be adjusted by your subject teacher.

Evaluation Rubrics

	5	3	1
Authenticity of the story	Story is a from other language, it is unique (compared with other submissions) with high moral value	Story is a from other language, story is not unique (compared with other submissions) but has high moral value	Story is a from other language, has very less impact
Submission demonstrates a concise knowledge and understanding of the theme	The submission addresses the requirement in meaningful and relevant way. The information is concise and accurate.	The submission addresses the requirement. The information is presented accurately and in a concise manner.	The submission somewhat addresses the requirement, but not in a cohesive or concise manner.

Use of technology and media	Accessed suggested media and employed technologies fluently.	Accessed suggested media and employed technologies adequately with support.	Struggled with media and technologies. Struggled with teacher-provided strategies and resources.
Creativity and Art Integration	The concept in the submission is creative, especially as compared with other submissions	The concept in the submission is somewhat creative.	The concept in the submission lacks creativity.

HINDUSTANI CLASSICAL MUSIC (VOCAL) (20 MARKS)

Subject : Music (Mathematical calculation of Rhythm)

Integrated Subject - Mathematics

Learning objective - Learn about the different patterns of rhythm integrated with Mathematics.

Project work:

- Write the definition of Rhythm (2m)
- Draw the structures of different types of rhythm. You must use mathematical fraction $\frac{3}{4}$, $1\frac{1}{2}$, $\frac{7}{4}$ etc. This must be done by research and experiment. (Proper calculation of different types rhythm with example must be shown). (12m)
- Give a presentation on, how time calculation is interrelated with musical rhythm. (6m)

Learning Outcome:

- Student will be able to draw a table on talas with different fractions of rhythm.

HINDUSTANI MUSIC – PERCUSSION INSTRUMENT – TABLA (20 MARKS)

Subject : Music (Mathematical calculation of Laya)

Integrated Subject – Mathematics

Learning Objectives :

- To know the concept of Tala which comes from Vedic era text of Hinduism , such as Samaveda
- To know about the roots of tala

Project work:

- Write the definition of Laya (2m)
- Enumerate the different types of Laya (4m)
- Show proper calculation of Laya with examples (4m)
- Explain Tala – Laya – Jati of Hindustani and Carnatic Music (6m)
- Illustrate the system of making different frames of composition (4m)

Learning Outcomes :

The student will know about:

- Indian traditional roots of music
- Concept of musical meter and frame
- Basic idea of framing Laya
- Different Laykari (Variation of Laya) i.e. Duguna laya (2/1), Teenguna laya(3/1) , Kuar laya (5/4) and application in Tala system
- Mathematical calculation
- Knowledge of making different composition Link : [https://en.m.wikipedia.org/wiki/Tala_\(music\)](https://en.m.wikipedia.org/wiki/Tala_(music))

PAINTING (20 MARKS)

Topic: Digital Literacy

Making a doodle to create awareness about Digital Literacy amongst public.
(Individual work)

Learning Objective: To create a doodle that has a perfect balance between the illustration and the slogan and can attract viewers.

Medium to be used: The doodle should be made in an A4 size paper. Any medium (poster colours, sketch pens, colour pencil or collage) can be used to make it attractive. A combination of different mediums is also accepted. One must have a suitable slogan added in the doodle.

Full marks: 20

Composition-10

Slogan-5

Use of colours-5

LAKSHMIPAT SINGHANIA ACADEMY

OPEN BOOK PROJECT

TERM -I

2022-23

Theme: Digital Literacy

Integration: Hindi 2nd Language, Social Science ,I. T.

Class: IX

Total: 20 Marks

Subject: Bengali 2nd Language

করোনা অতিমারীর প্রভাব থেকে মুক্তি পায় নি কেউ। প্রত্যেক মানুষ কোন না কোন ভাবে প্রভাবিত হয়েছে এই অতিমারীর কারণে। পরিবর্তিত হয়েছে মানুষের জীবন যাত্রা। সে ডাক্তার ওক বা স্বাস্থ্য সেবাকর্মী, সকলেরই পরিবর্তিত হয়েছে কর্ম ধারা, কর্ম পদ্ধতি। এরকম পাঁচটি পেশায় যুক্ত পাঁচজন মানুষের সাক্ষাৎকার নাও যেখানে তারা কিভাবে ডিজিটাল সাক্ষরতার মাধ্যমে তাদের কর্মকান্ড চালিয়ে গেছেন। এই সময় তারা কোন কোন সমস্যার সম্মুখীন হয়েছেন এবং কীভাবেই বা তার সমাধান করেছেন সে বিষয়ে তাদের মতামত গ্রহন কর।

- ❖ পাঁচজন বিভিন্ন পেশার মানুষের সাক্ষাৎকার গ্রহন করতে হবে।
- ❖ উক্ত পাঁচজনের ছবি সহ পরিচয় দেওয়া আবশ্যিক।
- ❖ সাক্ষাৎকার প্রশ্নোত্তর পদ্ধতিতে নিতে হবে।
- ❖ সম্পূর্ণ সাক্ষাৎকারটি বাংলা ভাষায় লিখিত ভাবে নেওয়া হবে।
- ❖ প্রকল্পটির একটি উপযুক্ত শিরোনাম দিতে হবে।
- ❖ প্রাসঙ্গিক চিত্র ব্যবহার করা যেতে পারে।

নম্বর বিভাজন :

বিষয়বস্তু -১০

উপস্থাপনা -৫

ভাষা ব্যবহার -৪

শিরোনাম -১

LEARNING OBJECTIVES :

- ❖ নতুন টেকনলজির ব্যবহার সম্পর্কে সম্পর্কে জ্ঞান অর্জন করা
- ❖ বর্তমান টেকনলজির যুগে সঠিকভাবে যোগাযোগ বজায় রাখা।
- ❖ প্রয়োজনীয় বিভিন্ন অ্যাপ সম্পর্কে ধারণা স্বচ্ছ করা।
- ❖ ভাষার প্রয়োগ সম্পর্কে ধারণা লাভ করা।
- ❖ সৃজনশীলতার বিকাশ ঘটানো।

LEARNING OUTCOMES :

- ❖ শিক্ষার্থীরা বিভিন্ন প্রয়োজনীয় অনলাইন অ্যাপ সম্পর্কে অবহিত হবে।
- ❖ বিভিন্ন অ্যাপের ব্যবহার শিখবে।
- ❖ অনলাইন অ্যাপ ব্যবহারে সতর্কতা অবলম্বন করতে শিখবে।
- ❖ ভাষা প্রয়োগের দক্ষতা বৃদ্ধি পাবে।
- ❖ সৃজনশীলতার বিকাশ ঘটবে।