TRANSDISCIPLINARY PROJECT- GRADE VIII- ENGLISH

Learning objectives-

Students will be able to –
-learn the reasons behind ‘child labour’.
-ponder about the miserable conditions of the victims of child labour.
-know about the steps taken by the government (laws) to stop child labour.
-understand their responsibility and duties towards the society.

Here is a dialogue based on the alarming issue of ‘Child Labour’ in between two friends.

Friend 1: Hey, did you see that kid working at the construction site?
Friend 2: Yeah, it's heart-breaking. He looked so young. It's terrible that child labour still exists.
Friend 1: Absolutely. It's hard to believe that in this day and age, children are still being forced to work instead of going to school and playing like they should.
Friend 2: It's a violation of their rights and it's just not fair. We should do something about it.
Friend 1: Definitely. Maybe we can raise awareness about it in our community or even volunteer with organizations that work to end child labour.
Friend 2: That's a great idea. Every little bit helps. No child should have to endure such hardships. Let's take action and make a difference.

The term "child labour" is often defined as work that deprives children of their childhood, their potential and their dignity, and that is harmful to physical and mental development.

Cause of 'Child Labour' in India-

- Poverty is the most significant driver of child labour in India.
- Economic Pressures on Families.
- Lack of Quality Education.
- Lack of Child Labour Awareness.
- Conflicts & Mass Migration.
- Gender Disparities.
- Natural Disasters & Climate Change.
- Demand for Cheap Labour.

How We Can Stop Child Labour in India?

- Educate & Spread Awareness.
- Aware of the Laws.
- Have a conscious discussion with child labourer's parents.
- Stop people to employ children in homes, shops, factories, etc.
- Partner with movements or NGOs.
- Send more children to school.

Questions based on the topic-

Choose any two questions from the given below.

1. Do research of the cases related to “child exploitation" or "youth exploitation”. Make an album of real life cases of child labour and how the victims battled it. Suggest suitable title for the album.(Printouts)

2. Make a poster on child labour by using catchy slogans and quotes. (On a chart paper)

3. Write a newspaper article on child labour. (Soft copy as a word document)
   - The Impact of Child Labour on Education and Human Rights.
   - The psychological effects of Child Labour: Long-term implications on mental health.
   - Child Labour in urban settings: Hidden realities in cities

4. You are an interviewer, interviewing a child who is forced to work in a brick factory. Prepare ten questions to conduct his/ her interview. Also make a collage of pictures showing the disastrous impact of child labour on the victims’ lives.

5. Search for the poems based on the issue of Child Labour. Make collection of any 5 such poems along with their paraphrase. **Recite** those in the class.(Word document)

ARMY PUBLIC SCHOOL

CLASS VIII

Social Science- Transdisciplinary Project

"Sustainable development is not just about meeting the needs of the present, but also ensuring that future generations inherit a world that is thriving, balanced, and resilient. It's our responsibility to preserve and protect our planet, not just for ourselves, but for all life that calls it home."

PROJECT TITLE: "Sustainable Solutions: From Ideas to Action"

Project Overview: Students will research global environmental issues (shortage of water, global warming, crop failure due to unpredictable weather patterns, power shortage) and their local implications (in Ahmednagar), such as climate change, pollution, and biodiversity loss. They will also explore social aspects of sustainability, including access to resources by all classes in society, focusing on social equity.

Students should attempt ANY TWO questions.

QUESTION 1

1. Conduct brief interviews with 5 members of your family, neighborhood or community and ask them about what problems they face regarding access to resources (water, electricity, food items, internet/telephone) in their day to day lives.
2. Transcribe these interviews in a scrapbook.
3. Based on these interviews, write an article reporting their views in the same scrapbook

QUESTION 2

1. Create a brief PowerPoint (or any other digital presentation software) presentation on any new and upcoming technology that will help human society meet the challenge of conserving resources.
2. In the presentation, first discuss the problem that the technology will aim to solve, and then give a brief of what the technology will do to solve the problem.

3. In the presentation, also indicate how these have been used or can be used in India.

QUESTION 3

1. Create any sustainable art from waste material available in their home.
2. Some waste material options that they can use- old newspapers/papers, plastic bottles, old clothes.

QUESTION 4

1. With the help of your parents, collect data from the past 5 months on your household consumption of:
    a. Water,
    b. Electricity
    c. Petrol/diesel,
    d. Grocery staples
    e. Fruits and vegetables
2. Then create a pie chart indicating which resource your household spends the most money on.
3. Based on this data, provide solutions on how you can reduce the consumption of various resources to live a more sustainable life.
4. Add this pie chart and subsequent findings and solutions to the same scrapbook used for Question 1.

<u>Learning Outcome:</u>

- Students will be able to develop interpersonal skills by interacting and interviewing members of their family and community.
- Students will be able to report in a comprehensible manner their conversations.
- Students will be able to gain knowledge about the latest scientific developments and develop curiosity about the same.
- Students will be able to create aesthetically pleasing items out of waste material.
- Students will be able to analyse their household expenditure. Based on this analysis they will be able to understand their usage of renewable and non-renewable resources.
- Students will be able to weigh their day to day decisions to lead a sustainable life.

RUBRICS

Students will be evaluated on:

1. The authenticity of their reporting and article writing.
2. The depth of their research into new and upcoming technologies and creativity of presentation.
3. The sustainability and aesthetics of the art they create.
4. The practicality of the solutions they come up with
5. Timely submission

आर्मी पब्लिक स्कूल अहमदनगर

विषय हिंदी - अंतःविषयक परियोजना (२०२४-२०२५) कक्षा- आठवीं

विषय - क्या निराश हुआ जाए

आशा और निराशा सिक्के के दो पहलू हैं। आशा है तो हौसले हैं ,हौसले हैं तो उम्मीद है, उम्मीद है तो सफलता है। इसके विपरीत निराशा है तो कुछ भी नहीं है, न हौसले, न उम्मीद और न ही सफलता। आज के इस स्पर्धा के युग में मनुष्य निराशा की ओर बढ़ रहा है, इस संदर्भ में अन्य विषयों के साथ निराशा का समाधान ढूँढने का प्रयास कीजिए।

(NOTE – नीचे दिए गए प्रश्नों में से <u>कोई दो</u> प्रश्न करें | प्रत्येक प्रश्न के लिए दिए निर्देशों का पालन करें |)

- **भाषा (अंग्रेज़ी/हिंदी) :- निराशा के पाठ को शिक्षा के क्षेत्र से कैसे जोड़ा जा सकता है? कैसे शिक्षा प्रणाली निराशा की स्थिति में संवेदनशीलता और सामर्थ्य का विकास कर सकती है ?**
  (कविता /कहानी द्वारा इसका प्रस्तुतीकरण किया जा सकता है| सामग्री - कविता या कहानी को दर्शाते चित्र और प्रोजेक्ट पेपर पर लेखन कीजिए और फाइल बनाइए |)
- **निराशा के अनुभव को न्यूरोसाइंस के दृष्टिकोण से कैसे समझा जा सकता है? शारीरिक और मानसिक स्वास्थ्य के प्रभावों को कैसे समझा जा सकता है और समाधान के लिए उपाय किए जा सकते हैं?**
  (PPT / जानकारी को प्रोजेक्ट पेपर्स पर लिखकर फाइल बनाइए |)

- **कला कैसे रोचक और सहयोगी तरीके से निराशा को बदल सकती है ?**

(संगीत की धुनें याद करें व उन्हें गाते हुए वीडियो बनाएँ / भिन्न -भिन्न प्रकार के रंगीन मौखोटे बनाकर कक्षा में अभिनय करें |)

- आशा और निराशा विद्यार्थियों के जीवन को किस प्रकार से प्रभावित करती है ? अपने अनुभवों के माध्यम से स्पष्ट कीजिए।
  (हिंदी या अंग्रेज़ी भाषा के माध्यम से लेख/कहानी/निबंध /पत्र आदि लिखकर फाइल बनाइए |)

*सीखने के प्रतिफल ✈

✈ छात्र अन्य विषयों के साथ संबंध स्थापित करने में सक्षम होंगे।

✈ छात्रों में वाचन, पठन लेखन, भाषण कौशलों का विकास होगा ।

✈ छात्रों में आत्मविश्वास बढ़ेगा ।

✈ कल्पना शक्ति का विकास होगा।

✈ भाषा कौशलों का विकास होगा जैसे चिंतन, मनन, पठन आदि।

✈ छात्र स्वयं मूल्यांकन करने में सक्षम होंगे।

परियोजना कार्य के मापदंड -✈

शुद्ध उच्चारण - ४

विषय वस्तु - ४

समय पर प्रस्तुतीकरण - ४

हाव -भाव - ४

आत्मविश्वास - ४

आर्मी पब्लिक स्कूल अहमदनगर

विषय संस्कृत **अन्त:विषयक परियोजना 2024-25** **कक्षा- आठवीं**

डिजीभारतम्

आप सब ने यह चित्र बहुत बार देखा होगा | आज कल किसी भी प्रकार की पेमेंट के लिए हम गुगल ऍप या फोन ऍप का उपयोग करते हैं | पर यह दृश्य कुछ वर्ष पूर्व असंभव सा लागता होगा | किसी ने सोचा नहीं होगा की केवल फोन से हम यह पेमेंट कर पाएँगे | वीडिओ कॉल, मैसेज, online news, मिटींग्स यह सब चमत्कार से कम नहीं है |

यह योजनाएँ digital इंडिया की वजह से सफल हुई है |

क्या है यह digital इंडिया चलिए समझते हैं |

- Digital इंडिया का उपयोग आप कैसे करते हो ? संवाद द्वारा कक्षा में प्रस्तुत कीजिए | हिंदी \ अंग्रेजी \ संस्कृत
- इस योजना से देश में क्या - क्या बदलाव आए और कैसी सुविधाएँ मिली इसका इतिहास नुक्कड नाटक द्वारा प्रस्तुत कीजिए |
- Digital इंडिया ने किन - किन क्षेत्रों को प्रभावित किया है और कैसे ?
  उदा : बँकिंग, कृषी इ - संगणक
- जैसे हर सिक्के के दो पहलू होते है, क्या digital इंडिया से कूछ नुकसान भी हुआ है आलेख के द्वारा दर्शाए |
- भविष्य में digital इंडिया कैसे देश में बदलाव लाएगा अपने विचार प्रस्तुत कीजिए |
- हिंदी \ अंग्रेजी \

- **सीखने के प्रतिफल**
- छात्रों में वाचन, पठन लेखन, भाषण कौशलों का विकास होगा ।
- तंत्रज्ञान के बारे में अधिक जानकारी प्राप्त होगी |
- छात्रों में आत्मविश्वास बढ़ेगा ।
- कल्पना शक्ति व सृजनात्मकता का विकास होगा |
- सामूहिक कार्य करने में सक्षम होंगे।
- छात्र स्वयं मूल्यांकन करने में सक्षम होंगे।
- **********
- परियोजना कार्य के मापदंड -
- शुद्ध उच्चारण - 5
- विषय वस्तु - 5
- समय पर प्रस्तुतीकरण - 5
- हाव -भाव व आत्मविश्वास 5
- **********

(छात्र - file में ppt में , नुक्कड नाटक आदि के द्वारा अपना कार्य प्रस्तुत कर सकते है)

Maths

NOTE:Thestudent will attempt ANY TWO questions out of the given questions.

1) SAVEDAUGHTER,EDUCATEDAUGHTER

● Create a double bar graph and pie chart in Excel sheet representing the ratio of girls to boys per 1000 in 20 Indian states based on the 2011 and 2001 census data. Once completed, Take print out the table, charts and paste them into a new 100-page notebook dedicated to this project and also solve the below questions in it.

● IfAloksaves Rs. 1200 each year from the birth of his daughter Asha for 24 years then calculate the total money saved by him when his daughter becomes 25 years old.

● OurGovernment contributes Rs 25,00,00,000 for girls education each year. Find out the total contribution of the government in 6 consecutive years.

Learning outcomes:

1. Data Visualization and Interpretation

2. Financial Literacy

3. Numerical Computation

4. Social Awareness

5. Critical Thinking and Problem-Solving

Q2) Produce a 5-minute (flexible) podcast discussing the significance of understanding linear equations and rational numbers in mathematics education. The podcast should be presented in audio or video format using a free podcast platform like Spotify, Anchor. Once the project is completed upload the file in google drive and share the link.

Outline:

● Introduction (0:00- 0:30)

● Linear Equations (0:30- 1:30)

● Rational Numbers (1:30- 2:30)
● Applications and Examples (2:30- 4:00)
● Conclusion (4:00- 5:00)
Learning Outcomes:
1. Understanding Linear Equations
2. Applying Linear Equations in Real-Life Situations
3. Importance of Rational Numbers
4. Practical Applications of Rational Numbers
5. Enhancing Problem-Solving Skills
6. Promoting Critical Thinking
7. Fostering Mathematical Literacy
8. Supporting Career and Academic Success
Q3) "Wind power is a clean and renewable energy source. Wind turbines harness energy from the wind using mechanical power to spin a generator and create electricity. It benefits climate, air quality, and public health by displacing emissions of greenhouse gases and air pollutants that would otherwise be produced by fossil-fuel-based power plants."
Create a PowerPoint presentation with more than 10 slides focusing on the significance of wind power as a clean and renewable energy source. Include information on how wind turbines generate electricity, their environmental benefits in terms of climate, air quality, and public health, and their role in displacing emissions from fossil-fuel-based power plants

Transdisciplinary Project

Subject: Science Class : VIII

SUSTAINABLE AGRICULTURE

How will we feed the world population by the year 2050? The United Nations projects that by 2050 the world population will have risen to 9.7 billion people—more than 2 billion more people than today! To feed everyone, we will need a lot more food, which makes agricultural technology incredibly important. Agricultural technology is the use of science, engineering, and technology to make agriculture better. This can mean a wide range of things, including preventing plant diseases, gathering data to optimize crop yield (the amount of food you can grow on a piece of land), using resources like water more effectively, or even creating more nutritious versions of a vegetable!

WITH THE HELP OF TECHNOLOGY, HOW WE CAN GO FOR SUSTAINABLE DEVELOPMENT IN AGRICULTURE?

Do research work on technology for sustainable agriculture and make a collage/ppt digitally to express your ideas and research work.

Select any two activities to do:

1) Build a Circuit to Automatically Water Your Plants/or any other technology which will help agriculture

2) Prepare Hydroponics project: Gardening Without Soil

3) To prepare seed balls for some seeds (Seed balls are an easy and sustainable way to cultivate plants in a way that provides a larger window of time when the sowing can occur.)

4) To prepare a compost pit in your garden and prepare compost from. Biodegradable kitchen waste.

5) Maintain photographs, audio and videos supporting your work and prepare a report along with photographs in notebook or file to represent your seed balls, compost pits.

6) Submit compost packed well and seed balls in school for plantation and use.

Science and Technology Integration:
Explore the role of science and technology in advancing sustainable agriculture practices, such as biotechnology for crop improvement, precision farming techniques, and renewable energy solutions for farming operations.
Investigate the impact of climate change on agricultural systems and develop adaptation strategies using climate science and modeling techniques.
Economics and Policy Analysis:

Analyze the economic viability of sustainable farming practices and assess the costs and benefits compared to conventional methods.
Evaluate existing agricultural policies and identify opportunities for policy reform to promote sustainability, considering factors like subsidies, trade agreements, and market incentives.

Social Sciences and Community Engagement:

Examine the social dynamics of agricultural communities, including issues of equity, access to resources, and cultural traditions related to farming.
Implement participatory research methods to engage local communities in decision-making processes and co-design sustainable agriculture initiatives that meet their needs and priorities.

Health and Nutrition:

Investigate the relationship between agricultural practices, food production, and human health outcomes, including nutritional quality and food safety.
Promote agroecological approaches that enhance biodiversity and soil health, leading to healthier ecosystems and improved nutritional value in food crops.

Environmental Studies and Conservation:

Assess the environmental impact of agriculture on soil, water, air quality, and biodiversity, using ecological principles and environmental monitoring techniques.
Develop strategies for regenerative agriculture and ecosystem restoration to mitigate environmental degradation and enhance the resilience of agricultural systems.

Education and Capacity Building:

Integrate sustainable agriculture concepts into educational curricula at all levels, from primary schools to universities, to foster environmental literacy and promote a culture of sustainability.
Provide training and extension services to farmers and agricultural practitioners on sustainable farming techniques, including organic farming, agroforestry, and permaculture.

Cross-Cultural Perspectives:

Explore indigenous knowledge systems and traditional farming practices, recognizing the valuable insights they offer for sustainable agriculture and biodiversity conservation.
Foster cross-cultural dialogue and collaboration to promote respectful partnerships and mutual learning between different knowledge systems.

Art and Communication:

Use art, storytelling, and multimedia platforms to raise awareness about the importance of sustainable agriculture and inspire action for positive change.
Communicate research findings and complex scientific concepts in accessible and engaging ways to diverse audiences, including policymakers, farmers, and the general public.
By integrating multiple disciplines into your sustainable agriculture project, you can develop holistic solutions that address the economic, social, environmental, and cultural dimensions of food production and contribute to building resilient and sustainable food systems.

Math : Data Analytics and Machine Learning:

Use data analytics techniques and machine learning algorithms to analyze large-scale agricultural data sets and extract actionable insights for improving farm productivity, resource efficiency, and sustainability.
Develop predictive models for crop yield forecasting, pest and disease detection, and climate impact assessments to support proactive decision-making and adaptive management strategies.

English: Storytelling and Narrative:
Incorporate storytelling techniques into project communications to highlight the experiences and perspectives of farmers, communities, and researchers involved in sustainable agriculture initiatives.
Collect oral histories, testimonials, and case studies from farmers practicing sustainable agriculture and present them in English to illustrate the social, economic, and environmental impacts of their efforts.
Hindi:Documentation and Reporting:
Prepare project reports, research papers, and technical documents in Hindi to ensure accessibility for Hindi-speaking stakeholders, including farmers, policymakers, and local communities.
Translate project materials such as manuals, guidelines, and educational resources into Hindi to facilitate understanding and adoption of sustainable agricultural practices.

RUBRICS:

1) **IDEA OF CONTENT-5**
2) **TIMELY SUBMISSION-5**
3) **PRESENTATION-5**
4) **INNOVATION-5**
5) **INTEGRATION WITH OTHER SUBJECTS-5**

LEARNING OUTCOME OF STUDENTS:

1) **Students will learn agricultural practices practically.**
2) **Students will understand importance of each step of agriculture.**
3) **Students will do innovation and research work to develop new techniques.**
4) **Students will learn correlation of agriculture with other sectors.**