

ENGLISH

Activity 1:

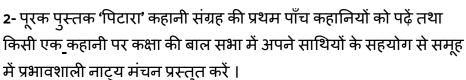
"Harvesting Connections: The Intersection of Technology and Human Bond in Agriculture". Create a comic strip showcasing a harmonious blend of technology in agriculture, such as a farmer using modern machinery alongside traditional farming methods, with a community gathered around.

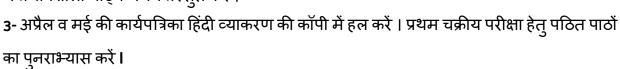


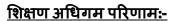
Activity 2: "Utilizing Adobe Express, design a poster illustrating the integration of medicinal plants into our daily routines."



पाठ - 'पानी की कहानी' - के आधार पर 'कृषि में जल संरक्षण ' विषय से संबंधित महत्त्वपूर्ण बातों का वर्णन करते हुए सिंचाई की प्रमुख विधियों पर Adobe express की सहायता से पी.पी.टी प्रस्तुतीकरण तैयार कीजिए।







- हिंदी साहित्य के प्रति रुचि एवं विकास।
- भाषा कौशल व व्याकरण का विकास।
- रचनात्मक लेखन, सृजनात्मकता तथा भावाभिव्यक्ति का पल्लवन।
- मनन-चिंतन का विकास तथा मौलिकता में अभिवृद्धि।

<u>संस्कृत</u>

- रचनात्मक-कार्यम् 'तुलसी पादपस्य आत्मकथा' पाठ पर आधारित किसी एक औषधीय वृक्ष से निर्मित किन्ही पाँच उत्पादों के नाम संस्कृत में सचित्र लिखते हुए ADOBE
 - EXPRESS का प्रयोग कर पोस्टर का निर्माण कीजिए तथा स्वास्थ्य संबंधित एक सूक्ति लिखिए।
- 2. प्रथम-चक्रीय परीक्षा के लिए पठित पाठों का पुनराभ्यास करें।
- रूप लिखें स्मरण करें शब्दरूपाणि- साधु, नदी, अस्मद्, युष्मद्, (किम्, तत् का तीनों लिंगों में)



धातुरूपाणि- परस्मैपदी - नम्, कृ, गम्, अस्, दृश् (लट्, लृट्, लङ् लकारों में)

4. पाठाधारित कार्यपत्रिका को उत्तरपुस्तिका में पूर्ण करें। शिक्षण अधिगम कौशलम -

वाक्य निर्माण प्रक्रिया का ज्ञान व शब्द भंडार में वृद्धि। संस्कृत लेखन कौशल का विकास। भाषा संबंधी व्याकरणिक व तकनीकी ज्ञान। चिंतन कौशल का विकास।

FRENCH

Title: "Discovering Crop Production in French: A Summer Exploration"

ACTIVITY 1: Introduction to Agricultural Vocabulary (Adobe Workbook Activity)

Use Adobe Workbook to create interactive flashcards with French words for crops, farming equipment, and agricultural practices.



ACTIVITY 2: Crop Types and Seasons (Research Project)

- (i)Research common crops grown in French-speaking regions and their respective seasons.
- (ii)Create a presentation using Adobe Spark, incorporating French descriptions and images of various crops.

ACTIVITY 3: Farming Techniques and Challenges (Creative Writing)

- (i)Students to research modern farming techniques such as organic farming and hydroponics.
- (ii)Utilize Adobe InDesign to compile writings into a digital magazine showcasing farming practices.

ACTIVITY 4: Sustainable Agriculture Solutions (Project)

Students to create informative posters or infographics using Adobe Illustrator, emphasizing the importance of the topic.

LEARNING OBJECTIVE:

- 1. Introducing basic French vocabulary related to crop production.
- 2. Explore different types of crops and their growing seasons.
- 3. Understanding farming techniques and challenges faced by farmers.
- 4. Promote awareness about sustainable agriculture practices.

AIOT PROJECT

Theme: Crop Production (Krishi Samagam)
Subjects Integrated: Science, Social Science,
Mathematics, Information Technology, and Artificial Intelligence.

Problem Statement:

In light of India's status as the most populous nation, providing food for 1.4 billion people poses a significant challenge, exacerbated by a 17% reduction in cultivable land area. Addressing the need for increased food production with limited resources and harnessing new technologies to empower farmers digitally is imperative.

Solution:

SCIENCE

Create a digital or physical model or app and accompany it with a PowerPoint presentation demonstrating the experimentation of various factors and offering recommendations to farmers to enhance crop production under resource constraints. Additionally, propose solutions to mitigate the following issues in your presentation, dedicating a research page to each parameter listed below, emphasizing the importance of farmers testing them and transitioning from traditional to digital

- methods. a. Soil pH
- b. Soil moisture
- c. NPK level
- d. EC testing
- e. Different types of soil (crop-based)
- f. Water holding capacity of soil







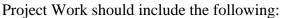
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SOCIAL SCIENCE

Related DRR topic:

- *Intensive farming and its impacts
- *Problem of burning agricultural waste and air pollution

India is an agriculturally important country. Two-thirds of its population is engaged in agricultural activities. Agriculture is a primary activity, which produces most of the food that we consume. Besides food grains, it also produces raw material for various industries. However, the practices like intensive agriculture and commercial farming are characterized by the use of higher doses of modern inputs, e.g. high yielding variety (HYV) seeds, chemical fertilizers, insecticides and pesticides in order to obtain higher productivity. This not only leads to land degradation but also to the problems like- burning agricultural waste leading to air pollution mainly in North India during winter.







- *The problems associated with commercial farming
- *Identify the causes and harmful effects of air pollution because of burning agricultural waste in parts of North India
- *Work done by government bodies /NGO's to bring control on pollution levels in our cities
- *Implement practices that can reduce disasters caused by human actions
- *Case based study-Stubble burning in UP, Haryana and Punjab during winter seasons and effects *Create maps illustrating:
 - a. Types of crops grown in different regions of India
 - b. Various soil types found in different regions
 - c. Climatic conditions required for optimal crop growth
- *Find out about any one innovation that can help agriculture and prevention of air pollution and create a report of 2 pages along with a video or PPT with the help of adobe express.

Learning outcome: Students will be able to gain a better understanding of the potential risks involved in commercial farming and the strategies employed to mitigate and respond to such risks effectively. They will be able to incorporate disaster risk reduction measures in Agriculture.

ARTIFICIAL INTELLIGENCE

Utilize Teachable Machine to develop an AI model, application, or gadget that can identify different parameters for which farmers traditionally depend on laboratories or experts for testing.



MATHEMATICS & INFORMATION TECHNOLOGY

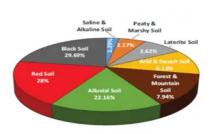
Data Analysis Assignment

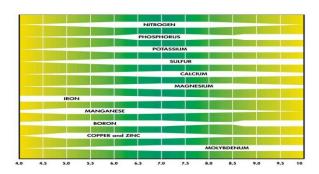
Objective:

To gather data regarding various factors related to soil properties and conduct data analysis using spreadsheet software Microsoft Excel to present and interpret the data.

Instructions:

- 1. Gather data on the following factors:
 - a. Soil pH
 - b. Soil moisture
 - c. NPK (Nitrogen, Phosphorus, Potassium) level
 - d. EC (Electrical Conductivity) testing
 - e. Different types of soil categorized by crop-based classification
 - f. Water holding capacity of soil
- 2. Utilize Microsoft Excel to organize and analyze the collected data
- 3. Present the findings in a comprehensive and interpretable manner using appropriate





graphs, charts, and statistical measures. Interpret the analyzed data to draw meaningful conclusions about the relationships between different soil properties and their implications for agricultural practices.

Submission Guidelines:

- Submit the completed data analysis report in Microsoft Excel format (.xlsx).
- Ensure that the document is neatly organized and clearly labeled for each factor analyzed.
- Include interpretations and insights derived from the data analysis.

Learning Outcomes:

Upon completion of this holiday assignment, students will:

- Gain proficiency in collecting, preparing, representing, and analyzing data.
- Cultivate an imaginative and creative mindset through the development of a gamified learning environment.
- Acquire knowledge and hands-on experience in training and constructing an AI model using Teachable Machine, aiding individuals without agricultural backgrounds in engaging with farming through machinery or an app.
- Enhance organizational skills and leadership qualities through collaborative group projects.
- Understand the significance of agriculture, crops, and natural resources in food production, emphasizing the avoidance of food wastage.

S NO.	SUBJECT/S	DATE OF SUBMISSION
1.	Science & Sanskrit/French	8th July 2024
2.	Social Science & English	9th July 2024
3.	Hindi & Maths	10th July 2024

Please note: The Holiday Homework will be considered for Project Based

Assessment & carries a weightage of 10 marks in each subject.

ENJOY YOUR HOLIDAYS!!