PM SHRI KENDRIYA VIDYALAYA DHARMAPURI

Autumn Break Holiday Homework (Activity Based)

Class VIII (AI Domains, Project Cycle, and Applications)

1. **AI Domains – Scrapbook Activity**
   - Make a scrapbook with **examples of AI in 5 domains**:
     - Healthcare
     - Agriculture
     - Education
     - Entertainment
     - Transportation
2. **Mini Project Idea**
   - Write a **1-page proposal**: If you could create an AI app, what problem would it solve? (e.g., homework helper, waste management, traffic control).
3. **Interview Your Family**
   - Ask **3 family members**: "Where do you think AI helps you most in daily life?"
   - Record answers and write them in a chart format.

1.

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Class VI – AI (Introduction to AI & Daily Life Applications)

1. **AI Around VS Collage**
   - Collect 10 pictures from newspapers/magazines/Internet showing **AI in daily life** (e.g., Alexa, Google Maps, Self-driving cars).
   - Make a colorful collage on chart paper.
2. **AI in My Home – Observation Activity**
   - Write about **5 gadgets or apps** at home that use AI.
   - Example: YouTube suggestions, Google Photos face recognition.
3. **Story Time with AI**
   - Write a **short story (1 page)** imagining a robot as your best friend helping in your holiday activities.

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Class : X SUB : AI

1. AI Project Cycle (Activity) any two :-

Pick any real-life problem (e.g., waste management, traffic, exam stress).

Apply the AI Project Cycle:

Problem Scoping – Define the problem clearly.

Data Acquisition – Where will you collect data from?

Data Exploration – What patterns do you expect?

Modelling (idea) – Suggest which AI model could be used.

Evaluation – How will you test success?

Present in a flowchart or mind map.

2. Case Study Collection

Find 2 newspaper/online articles about AI's role in society (positive/negative).

Summarize each in 150 words.

3. Creative Writing – AI in Future

Write a short essay or story (300 words): "A Day in My Life with AI in 2035".

1.

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Class IX SUB : AI

1. AI in My Community – Observation Journal

Observe and write 10 real-life examples of AI applications you come across during holidays (e.g., Google Lens, Paytm fraud alerts, Netflix recommendations).

Present them in a table format with App Name – AI Feature – How it helps.

2. Poster / Infographic Making

Topic: "AI for Sustainable Development Goals (SDGs)".

Make a poster or infographic showing how AI can help in healthcare, education, environment, and agriculture.

3. Chatbot Design (Paper-based)

Imagine you are creating a chatbot to help students during exams.

Write a sample conversation (5–6 dialogues) between a student and the chatbot.

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Class VII – AI (AI Applications & Human Intelligence)

1. **AI Detective – Find the AI**
   - During holidays, list **10 situations** where you notice AI being used (apps, online games, shopping apps, etc.).
2. **Poster Making**
   - Design a **poster on "Responsible Use of AI"** (safety, privacy, ethics).
3. **Human vs. AI Intelligence Chart**
   - Make a **comparison chart** with examples:
     - Human intelligence strengths (creativity, emotions).
     - AI strengths (speed, accuracy).