

## MY DREAM ECO-SMART SCHOOL

### Objective

Design an Eco-Smart School of the Future.

### Session 1: Data Collection and Organisation

#### Activity

##### Data Gathering in Word

###### ❖ Task

Collect information on eco-friendly practices in school such as electricity usage, water consumption, recycling habits or tree plantation drives.

###### ❖ Skills Practiced

- ✦ Creating and formatting tables in Word.
- ✦ Inserting headings, bullet points and images.
- ✦ Writing short observations and notes.

#### Outcome for Session 1

A well-organised Word document with data tables and notes representing the school's eco-friendly habits.

### Session 2: Data Analysis and Visualising

#### Activities

##### 1. Data Analysis in Excel

###### ❖ Task

Create a worksheet using data from the Word document with months, categories (e.g., electricity usage, water consumption, recyclables) and their values for easy organisation and analysis.

### ❖ Skills Practiced

- ✦ Using different data types to enter the data.
- ✦ Moving and deleting data if required.

## 2. Visual Presentation in PowerPoint

### ❖ Task

Create a presentation using the data collected from Session 1. Insert various graphical elements to make the presentation more engaging and visually appealing.

### ❖ Skills Practiced

- ✦ Using a suitable layout for the theme.
- ✦ Formatting graphical objects.
- ✦ Using Master Slide feature.

## Outcome for Session 2

An Excel file with clean data tables and an engaging PowerPoint presentation that showcases the data visually.

## Session 3: AI with Scratch and Mobile App

### Activities

#### 1. Interactive AI Project in Scratch

### ❖ Task

Create a Scratch project using the **Text to Speech** extension, featuring a Robot and Student discussing energy-saving tips, technology and green practices like recycling and renewable energy.

### ❖ Skills Practiced

- ✦ Coding in Scratch
- ✦ Using extension for interactive elements.
- ✦ Using variables, broadcasts and received blocks for interactive behaviour.

## 2. App Development with MIT App Inventor

### ◊ Task

Create a simple app prototype called **Eco-Smart Helper**, where users can press a button to receive eco-friendly tips for the school or take an energy-saving challenge.

### ◊ Skills Practiced

- ✦ Designing a mobile app user interface (UI).
- ✦ Creating basic functionality with MIT App Inventor (buttons, screens).

## Outcome for Session 3

An interactive Scratch project and a mobile app prototype featuring innovative ideas.

## Final Deliverables

Tick (✓) the box if submitted:

- ◊ Word document with data tables and notes
- ◊ Excel file with clean data tables
- ◊ Engaging PowerPoint presentation
- ◊ Interactive Scratch project
- ◊ Mobile app prototype



This project helps students learn how technology, AI and eco-friendly ideas can be combined to make a school that is fun, smart and good for the environment. They will use a mix of creativity, technology and real-world thinking to bring their Eco-Smart School to life.