

PM SHRI KENDRIYA VIDYALAYA NO. 2, AFS, SRINAGAR

WINTER VACATIONS HOMEWORK

SUBJECT: SCIENCE (CLASS: 8th)

Q.1 PREPARE A MULTIDISCIPLINARY PROJECT:

Project Title: "Innovate and Build: My Sustainable Future City"

 **Objective:** To design and build a working model of a small, self-sufficient, and environmentally friendly township or city, demonstrating innovative solutions for common urban problems like energy, waste, and water management.

[#] Integration with other Subjects and Learning Focus:

Science, "Renewable Energy (Solar/Wind models), Water Cycle (filtration system), Waste Management (composting, recycling), Electromagnetism (simple motor/circuit)."

Social Science, "Civics/Urban Planning (infrastructure layout, resource allocation), Geography (location analysis, disaster-resilient design)."

Mathematics, "Area and Volume Calculation (model scale, house dimensions), Data Presentation (charting 'carbon footprint' or energy efficiency)."

Art & Design, "Aesthetic appeal and Model Construction (using recycled materials, scale drawing, color schemes)."

Q. 2 **Learners Dairy:** Make your Learners dairy for all the covered chapters .

Q.3 The written part should be done neatly in your handwriting in homework copy.

Q.3 **READ, LEARN and REVISE** all the above chapters thoroughly for the upcoming test to be held after vacations.

Q.4 Prepare a **clay model** of your choice topic.

Q.5 Learn to **cook 10 dishes** and prepare a chart showing their health benefits on our body.