



Session: 2024-25

Ref No.: 00105-A

"Energy cannot be created or destroyed; it can only be transformed from one form to another."

Class XI Physics Event – 'Thermodynamics'

**Dear Parents,
Greetings!**

We are excited to inform you about an upcoming event for Class XI students, focusing on the fascinating topic of Thermodynamics. This event aims to deepen the students' understanding of thermodynamics, foster hands-on learning, and inspire critical thinking through experiments related to the concepts of heat and energy.

Objectives:

- ❖ To provide students with an in-depth understanding of the core concepts of thermodynamics, including laws of thermodynamics, heat engines, and entropy.
- ❖ To engage students in practical experiments demonstrating thermodynamic principles.
- ❖ To encourage students to relate thermodynamics to real-world applications and sustainable energy solutions.

Event Details:

Date: 24th January 2025 (Friday)

Time: Physics Period

Venue: Physics Laboratory

Experiments:

1. Calorimetry Experiment – To determine the specific heat capacity of various materials.
2. Boyle's Law Experiment – To demonstrate the relationship between pressure and volume at constant temperature.
3. Charles' Law Experiment – To verify the relationship between temperature and volume at constant pressure.
4. Heat Engine Demonstration – To show the working principle of a heat engine.
5. Entropy Change Experiment – To demonstrate the concept of entropy through reversible and irreversible processes.

Note:

Participation is compulsory for all students.

Parents are encouraged to motivate their children for active participation and creative involvement in the event. Thank you for your support.

Warm regards,

Birla Public School, Ganganagar