



NEWTON UNPLUGGED - THE PHYSICS OF TOYS

Dear Students,

Only your imagination and ingenuity limit you in your application of the fundamental laws of physics to ordinary objects, even toys.

- How do things move and how do they stay constant?
- How do airbags work in cars?
- How do planes fly in the air?
- How does the water flow?
- Why do buildings look static and not fall off?
- How do cars work?

So, what is the physics behind the explanation of such things that we see in our daily lives?

The answers to all these questions lies in the study of Physics, more precisely Newton's laws which are concerned with explaining the motion of things and their application in daily life.

All too often when the word Physics is mentioned, people have a very negative reaction. Fortunately, the basic principles of Physics can often be demonstrated, as well as made fun, by using ordinary toys. By understanding how these toys work, the observers can better understand the world around them. To make learning of Physics fun filled, the school will be organizing '**Newton unplugged, an exhibition on Physics behind Toys**' for the students of Classes IX – XII on 14 Jan, 2022 under the guidance of Ms Swati Chawla, PGT (Physics), Ms Rani Vaid, PGT (Physics) and Mr Prabhat Mishra, TGT (Science).

10 groups of students under the mentorship of each teacher will prepare toys to explain the various laws of motion.

Students will –

- explore Physics through toy-based science activities.
- investigate the laws of motion with emphasis on gravitational and kinetic energy.
- through scientific inquiry, students will use the skills of prediction, observation, explanation and summary
- identify how energy is transferred as a result of mechanical motion.
- observe and record the different types of mechanical energy demonstrated

The students will also prepare a video showcasing their toy and explaining the principle behind the working of the toy. The videos will be submitted digitally to the Teacher incharges by 08 Jan, 2022.

Asha Prabhakar

Asha Prabhakar
(Principal)

स्वच्छ भारत

एक कदम स्वच्छता की ओर

Distribution

VPL, HM (Sr)

Broadcast Groups

Sachin (via e-mail to all staff & parents)

Website

