

HANDS-ON SLINKY EXPERIMENT

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CONDUCTED BY: Class XI-A

Grade IX-A Students Explore Wave Speed with a Hands-On Slinky Experiment

Students of **Grade IX-A** at **Bloom Public School** delved into the fascinating world of physics by conducting a practical activity to calculate the **speed of a wave** using a *slinky*. This engaging hands-on experiment helped reinforce their understanding of the relationship between wave speed, frequency, and wavelength.

Working in small groups, the students created transverse and longitudinal waves on the slinky and observed the motion carefully. By measuring the time taken for the waves to travel a known distance and calculating the frequency, they were able to determine the **wave speed** using the formula *Wave Speed = Frequency × Wavelength*.

This practical activity not only deepened their conceptual understanding of wave mechanics but also nurtured their observational skills, teamwork, and scientific thinking. The experiment turned abstract textbook knowledge into a real and exciting learning experience.

Our budding scientists demonstrated curiosity, enthusiasm, and accuracy throughout the activity—making learning truly come alive!

