

# Physics is Fun

This program allows students to experience why we truly believe that *Physics is Fun!* The show is based on Sir Isaac Newton and his laws of physics as well as the inventions of Robert VandeGraff and Nikola Tesla and will open your student's eyes to the fascinating world of physics and how it governs the way everything around us moves!

The first category discusses sound; what it is, how we hear, why we hear, and the difference between loud and soft sounds. Several demonstrations are used in this segment to demonstrate these principles.

Next, the inventions of Robert VandeGraff and Nikola Tesla are explored in detail. These gentlemen pioneered experiments in static electricity and are responsible for many modern pieces of electronics that we have today, yet very few people have ever heard of them.

The next segment is dedicated to gyros and gyroscopic stability. Large working models of gyros are introduced to the audience. Student and teacher participation is used to the laughter of the viewing audience.



The final segment deals with Newton's third law, the law of action and reaction. In this segment the performer introduces a pulse ram jet engine. He explains how Newton's third law applies to jet engines. This segment is very exciting to the students as the jet engine generates a considerably high level of sound.

The 45 minute presentations are tailored for each age group (K-9) and will provide appropriate academic content. The program comes complete with its own visual aids, making this show the type that all audiences can appreciate. All demonstrations are visible in even the largest of auditoriums. *Physics is Fun* is also available in an all-day format with hands-on workshops.

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*This was the best assembly our students have had. Not only was it entertaining but it was informative. Physics is fun certainly lived up to it's name!*

Randallwood Elem. School,  
Warrensville Heights, OH

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**For further information please call toll free:  
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# PHYSICS IS FUN

## Assembly Information

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**Age Group:** Kindergarten through 9th Grade

**Length:** 40-45 minutes

**Size:** The area needed is limited only by the size of the facility. Average audience size is 250.

**Presentation Area:** A stage or 8' x 25' area. One AC electrical outlet. Access to water for clean-up.

**Assistance:** Custodial or adult assistance for unloading, set-up, tear-down and loading.  
Two 6'-8' banquet style tables.

**Set-up/Take-down Time:** Set-up: 45 minutes. Take-down: 30 minutes.

**Content:**

- Sound and how we hear
- Isaac Newton's laws of physics - gravity, inertia, action/reaction
- Robert VandeGraff and his generator
- Nikola Tesla
- The physics behind a jet engine

## Hands-on Workshop Information

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**Length:** 45 minutes

**Size:** Maximum 32 students assisted by a teacher.

**Presentation Area:** A classroom setting is recommended. Allow 45 minutes to move to the classroom to set up the workshops.

**Assistance:** A teacher or staff member.  
5 tables for the work stations.

**Content:** Students learn about the physics of a modern toy, capsela. Students will build several different mechanical devices such as cable car, robot, wind driven car, tread driven tank, crane, and vacuum cleaner to name just a few. They all have a physical reason behind its ability to function.

Our curriculum based programs are designed to meet or exceed all testing and state requirements.

For further information please call toll free: 1-800-433-7459

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