

1001 Physics Demos Series Overview

The “1001 Physics Demos - DVD Series” is a collection of engaging and innovative physics demonstrations for physics educators and their students. Both experienced and new physics demonstrators, high school and college professors will benefit from these videos.

This video series is filmed to the modern quality that today’s audiences expect and deserve. The videos are in Ultra HD with excellent sound and professional lighting. Included are the classic physics demonstrations, but many of the demos are original and cannot be seen anywhere else.

These videos are consistent with the interactive engagement style that is consistent with current educational practices. Students are now the ones performing the demonstrations, which should be going on in the classroom. The close ups allow the audience and demonstrators to really feel as though they are performing the demo themselves, and understand it. The narration is very informative so that the instructor could use the videos as advice on how to perform the demo.

In science education, there is currently a movement toward increased student engagement and hands-on interaction with laboratory materials. The old approach of performance demonstration should be replaced with hands on demonstration. This product meets this call for change because featured in many of the videos are students actually performing the demonstrations.

This video series was created by Master Physics Teacher James Lincoln. An experienced teacher with advanced degrees in education and graduate-level physics, he has become known nationally as a physics education expert specializing in demonstrations and laboratory instruction. The American Association of Physics Teachers and the Brown Foundation have funded his prior physics film series and very successful Advanced Physics (SCAPTI) and New Physics Teacher Workshops (NTPW). Lincoln has served on the California state advisory for the Next Generation Science Standards and as an AP Exam Reader. He has also produced videos for UCLA’s Physics Demos Project, Arbor Scientific, eHow.com, About.com, and edX.org.

Teachers are tired of the lack of professionalism in current online videos; we are assuming that teachers who will be watching the videos are concerned about the style and quality of the video. In short, we assume that a higher quality product with more dynamic videos and a modern educational approach will appeal to teachers and other educators.

Our style of videography involves making the viewer feel as though they are an active participant in the demonstration. By using close-ups, dynamic shots, and conversational voice-over, the viewer is engaged as a participant in the demonstration. In short, the film quality and style is modern, for today’s more sophisticated film viewer, and more informative for all teachers.

The video series can be purchased at www.PhysicsVideos.com

1001 Physics Demos FAQ

Who worked on this project?

James Lincoln, Physics Teacher, Workshop Leader
Anna Spitz, University of Michigan Student
Steven Wetrich, Camera, Light, Sound, Editing

What is 1001 Physics Demos?

It is a DVD collection of about three hundred short demonstration videos on all topics in physics. Each video contains several demonstrations. Also included are videos created by James Lincoln, Anna Spitz, & Steven Wetrich over the past few years. The full set is 6 DVDs arranged by topic.

How are these video demonstrations different / better?

The demonstrations are filmed in the highest quality, with close-ups, dynamic presentation, and clear, informative narration. Included are both the classic demos and **new twists** that helps take the equipment still further. Each video contains an average of three demonstrations on the topic or with the equipment. They are informative enough so that teachers can recreate them in class.

Is this meant to replace or accompany other video collections or youtube, etc?

Yes. These demos are designed to be performed by the students, consistent with the current *interactive engagement* style of teaching. We also have a low price. This video series is filmed in high definition video with excellent lighting and sound, with close ups, dynamic narration, and modern graphics and editing. This is the current quality to which our students are accustomed.

How do I buy the DVD Series?

The series can be purchased at **PhysicsVideos.com**, for \$945 (free shipping!)

Can I use Professional Development funds on this?

Yes. These videos were created by Master Teacher James Lincoln, MS, MEd, who is the leader of Southern California's New Physics Teacher Workshop Program. They were created both to serve as in class demo clips AND to instruct teachers on how to perform the demos themselves.

Who do I email for more information?

For questions on products or purchasing: **LincolnPhysics@gmail.com**

Or to sign up to receive our *Monthly Video Newsletter*: **AnnaSpitzPhysics@gmail.com**