

# PHYSICS OLYMPICS

## VIDEO COMPETITION



**Objective:** The goal is to make a video that demonstrates one or more physics principles. Principles can be related to virtually any core physics topic (Kinematics, Forces, Electricity & Magnetism, Wave Mechanics, Astronomy, Heat, Sound, Fluid Dynamics...etc.) The video should be visually compelling, easy to follow and carefully edited. Participants will also provide a short essay to accompany the video that explains the physics principle demonstrated and also describes how the video was taken.

**Rules & Requirements:** The video should be no longer than one minute, and may be a compilation of multiple videos, still images, graphics, superimposed media and may contain a variety of voice-overs and other sound samples. Stop-motion, slow-motion, time-lapse and other recording techniques may be incorporated in your video. All components of the video must be original. No graphics, video or any other media obtained from an outside source or the internet may be used.

Participants will also provide a written essay that describes in detail how the video was made, what the underlying physics principle(s) are and how the video and accompanying media demonstrate these principle(s).

**Presentation:** Completed videos will be shared in an online folder. Copies of the videos on a thumb drive should be brought to the Olympics as backup. Essays should be brought to the Olympics, and will be presented along with the video to the judges. Final videos should be in a standard video format that will run on both Mac and PC platforms (.avi, .mp4...etc.).

**Evaluation / Scoring:** Scores will be based both on the quality of the videos and the quality of the essays. The weighting will be approximately 70% video and 30% essay, however a video presented without an accompanying essay will not be considered.