

Name _____

Final Project 2017-2018 - Advanced Physics

Final Project - Create an instructional video and informational sheet about the applications of physics to something that interests you.

-This project will be completed with a partner.

- Your selection of topics will affect how you approach every part of the project. Ask for input from the teacher as you work.

Required Tasks

Investigation of Physics - 20 points	Investigation of Careers - 10 points	Investigation of Tools - 10 points	Video presentation - 40 points	Summary Handout - 20 points
<ul style="list-style-type: none"> - A short, but not simple, look at the applied science - For a roller coaster example: - “look, Potential energy at the top turns into Kinetic Energy at the bottom” would score low - “Analysis of Linear Induction Magnetic Propulsion” or “Design and Technology of Ride Safety” would score well 	<ul style="list-style-type: none"> - Investigate the people that designed or work with the process or materials of your topic - For a study of acoustics: - “ Everybody loves music and I listen to my earbuds every day ” might score low - Describing the training or the job tasks of the acoustician behind the Kimmel Center in Philadelphia might score well 	<ul style="list-style-type: none"> - Describe the tools or equipment used for your study - For a study about digital photography: - Simply stating that “a zoom lens makes things bigger” might score low. - Describing the purpose of the 18 different lenses inside a zoom lens or how modern sensors use color separation to increase resolution might score well. 	<ul style="list-style-type: none"> - 5 to 7 minutes - Could be a single take video of a live presentation - Could be a produced video using multiple clips or media. - Entertaining and informative will score well - Production quality is not graded, however ask for help if you need guidance on video software - Silliness or excessive effects that distract from your lesson will lower your score. 	<ul style="list-style-type: none"> - A 1 to 2 page handout that supports your video. - A short paragraph or two that summarizes your discussion. - The diagrams, equations, or statistics of your study. - Clear and concise with well selected visuals will score well.

Comments and Scores

<p>_____ / 20</p>	<p>_____ / 10</p>	<p>_____ / 10</p>	<p>_____ / 40</p>	<p>_____ / 20</p>
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Additional Comments: