

## Module 8: 20<sup>th</sup> Century Physics Authentic Assessment

Since 1900, many new theories in physics have changed the way that physicists view the world. Create a presentation that will explain to middle school students why Quantum Mechanics is important, how it has fundamentally changed the field of Physics and what new technologies have resulted from it. You may create a slideshow, video, or wiki to showcase your work.

	25 points	20 points	15 points	10 points
Explanation of QM	Correctly and completely explains the major ideas of Quantum Mechanics in a manner appropriate for the audience.	Explains the major ideas of Quantum Mechanics in a way that is incomplete.	Explains one aspect of Quantum Mechanics correctly, or more than one in a way that is not correct.	Does not explain the major ideas of Quantum Mechanics or does so incorrectly.
Changes in Physics	Explains three theoretical differences among physicists before and after Quantum Mechanics was fully developed.	Explains two theoretical differences among physicists before and after Quantum Mechanics was fully developed.	Explains one theoretical differences among physicists before and after Quantum Mechanics was fully developed.	Does not explain any differences.
New Technologies	Identifies and describes at least five technologies that use aspects of Quantum Mechanics.	Identifies and describes at least four technologies that use aspects of Quantum Mechanics.	Identifies and describes at least three technologies that use aspects of Quantum Mechanics.	Identifies and describes at least two technologies that use aspects of Quantum Mechanics.
Attractiveness	Makes excellent use of font, color, graphics, effects, etc. to enhance the presentation.	Makes good use of font, color, graphics, effects, etc. to enhance to presentation.	Makes use of font, color, graphics, effects, etc. but occasionally these detract from the presentation content.	Use of font, color, graphics, effects etc. but these often distract from the presentation content.