

## Curriculum Map

Course Title: 6th grade Science		Unit of Study: Laws of Motion		Academic Year: 2016-2017	
<p>What are the effects of forces and motion on our community and our lives? Where can Newton's Laws of Motion applied in our everyday lives? The strategies of inquiry and technology are integrated throughout the unit projects. This unit of study specifically addresses SC 8.1.1 and all its indicators.</p>					
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources (movies, worksheets)
9 weeks-12 weeks		Motion of an object by position and velocity	Describe	Rube Goldberg Project	-Youtube This too shall pass.  -Modern Marvels Weird Machines
		Newton's 1st Law	Describe, Recognize, Apply, Compare/Contrast	Rube Goldberg Project & Newton's Law Labs	<p>Splice  <a href="https://www.youtube.com/watch?v=rozV07bwebE">https://www.youtube.com/watch?v=rozV07bwebE</a>   <a href="https://www.youtube.com/watch?v=zUjMXxv7ESc">https://www.youtube.com/watch?v=zUjMXxv7ESc</a>                       Aubrey's Goldbergs there are more than one!  <a href="https://www.youtube.com/watch?v=0uDDEEHDf1Y">https://www.youtube.com/watch?v=0uDDEEHDf1Y</a></p>
		Newton's 2nd Law	Describe, Recognize,	Rube Goldberg	

			Apply, Compare/Contrast	Project & Newton's Law Labs	
		Newton's 3rd Law	Describe, Recognize, Apply, Compare/Contrast	Rube Goldberg Project & Newton's Law Labs	
		Balanced and Unbalanced forces	Describe, Recognize, Apply, Compare/Contrast	Rube Goldberg Project	
		Gravitational Force	Describe, Recognize, Apply, Compare/Contrast	Rube Goldberg Project	

Course Title: Science	Unit of Study: Sound	Academic Year: 2016-2017
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Unit/Time Frame	Standards	Content	Skills	Assessment	Resources (movies, worksheets)
Waves 2-3 weeks		What are Waves? Properties of waves Interactions of waves	Inquiry, design, observe, describe, recognize, apply compare, contrast	Lesson quizzes/ Chapter test	Lab: What are waves?  Lab What causes Mechanical waves?  Lab: Three types of waves  Lab: Making Waves  Lab: Wave interference  Untamed Science video
Sound 3 weeks		Sound, Waves	Describe, Recognize, Apply, Compare/Contrast	Lesson quizzes/ Test	Untamed Science Video  Lab What is sound?  Understanding sound  Changing Pitch  What is Music?  Designing hearing protectors


Course Title: Science			Unit of Study: Light		Academic Year: 2015-2016
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources (movies, worksheets)
Light		Light, Waves	Describe, Recognize, Apply, Compare/Contrast		Shadow and Light <a href="https://www.youtube.c">https://www.youtube.c</a>

					<a href="https://www.youtube.com/watch?v=-Rot9uaVO8s">om/watch?v=-Rot9uaVO8s</a>  <a href="https://www.youtube.com/watch?v=CvQBUccxBr4">https://www.youtube.com/watch?v=CvQBUccxBr4</a>  <a href="https://www.youtube.com/watch?v=g4s0pcePFZ0">https://www.youtube.com/watch?v=g4s0pcePFZ0</a>
		Light,Waves	Describe, Recognize, Apply, Compare/Contrast		Brain games

Course Title:			Unit of Study: Energy		Academic Year: 2015-2016
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources (movies, worksheets)
Energy / Energy					

resources 2-3 weeks					

Course Title:			Unit of Study: Simple Machines		Academic Year: 2015-2016
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources (movies, worksheets)

Course Title:		Unit of Study: Energy			Academic Year: 2015-2016
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources (movies, worksheets)
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Course Title:		Unit of Study: Crime Scene Investigation		Academic Year: 2015-2016	
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources (movies, worksheets)
2 weeks					



Course Title:			Unit of Study: Inquiry		Academic Year: 2015-2016
Supplemental: STEM/Science Fair					
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources (movies, worksheets) Use throughout year
Dispersed throughout the year during units					
An apple a Day					
Saving Sam					
Davinci's Bridge					

Polyhedra Kite challenge					
STEM gadgets					
STEM Reverse Engineering					
Build a flying boomerang					
Mobius Loops					
Perspective diagrams					
Nail Suspension bridge					
Science Fair					
Homemade ice cream March 20					
					<a href="http://www.ted.com/talks/saul_griffith_on_kites_as_the_future_of_renewable_energy?language=en">http://www.ted.com/talks/saul_griffith_on_kites_as_the_future_of_renewable_energy?language=en</a>  <a href="http://www.ted.com/tal">http://www.ted.com/tal</a>

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newable\_energy

White boards and  
songs for Science

[https://www.youtube.c  
om/user/AsapSCIENC  
E](https://www.youtube.com/user/AsapSCIENCE)

Olympics...

[https://www.youtube.c  
om/watch?v=fOyO6I7  
5GU8&list=PLvFsG9g  
YFxy\\_tkY6avqT\\_8rM  
V3\\_CxuECh](https://www.youtube.com/watch?v=fOyO6I75GU8&list=PLvFsG9gYFxy_tkY6avqT_8rMV3_CxuECh)