

**Course: Physical Science**

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**Technology Support/Content: n/a**

Week 1	Day 1	Day 2	Day 3	Day 4	Day 5
Lesson/Topic:	COOL Thermodynamics! Using kinetic energy to make it cool...	Endo-Exo and changes in kinetic energy. “Does hot water freeze faster than cold water?”	Newton’s Laws review	Atoms and the Periodic Table Review	Gases and KMT Review
Resource:	Applied Science: <a href="#">A refrigerator made with rubber bands</a>	Sciencium: <a href="#">Does hot water freeze faster than cold water?</a>	Crash Course: <a href="#">Newton’s Laws of Motion</a>	<a href="#">Atoms and the Periodic Table Review</a>	<a href="#">Professor Dave KMT and Gas Laws</a>
Task:	Watch the video and take notes on the properties of thermodynamics that relate to what you have learned. Additionally see this <a href="#">Wiki Summary on Rubber Band</a> . Then follow this experiment on <a href="#">Biophysics Basics: Elasticity</a> and do your best to complete what you can, given your available materials.	Watch the video and take notes on the properties of thermodynamics that relate to what you have learned. Additionally, see this <a href="#">Wiki on the Mpemba effect</a> . Conduct your own experiment by simply freezing two cups of water, one hot and one cold. Check on them at 15 minute intervals but be quick! Only confirm frozen or not and record the data. (add measurements if you have a thermometer and adjust the experiment as needed)	Watch the video and take notes on Newton’s 3 laws and examples. Additionally, see this <a href="#">video of more real life examples</a> to add to your notes.	Watch the video and PAUSE to take notes on it. Go to the <a href="#">PhET Build an Atom</a> exercise and make at least 5 different atoms.	Watch the video and PAUSE to take notes on it. Go to the <a href="#">PhET on Gases</a> and practice what you’ve learned. Then <a href="#">watch this video on the relative size of everything</a> from the smallest to the largest in the Universe. IF you found that hard to watch or meh- <a href="#">try this one!</a> Homework: Stay Curious!
Recommended Duration:	45 minutes – 1 hour	45 minutes – 1 hour	45 minutes – 1 hour	45 minutes – 1 hour	45 minutes – 1 hour