



**Physics 2021 – 2022**  
**Perry “Matt” Hyde (Coach Hyde)**  
*JCHS Science Department Room*  
*409*

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## Fall Semester 2021

Week	Unit	Topics	GSE
8/11	Expectations, Procedures, Hydescience, Virtual Platforms, etc...		
8/12 – 9/1 (15 Days)	<b>Unit 1: Set up for Success</b> <a href="https://nzmaths.co.nz/ikan-forms">https://nzmaths.co.nz/ikan-forms</a>	<u>Science Skills:</u> Graphing & Data <u>Math Skills:</u> Number & Units <u>Literacy Skills:</u> Vocab/Text Density/Buoyancy	<b>TBD</b> SP 1c
<b>Benchmark 1</b>			
			
9/7 – 10/5 (21 days)	<b>Unit 2: Matter, ENERGY &amp; Functions of Time</b>	Base units of Matter vs Energy Matter & Energy Interactions F(t) of Speed, Velocity & Acceleration Two-dimensional motion	SP 1 a,b,d
<b>Benchmark 2</b>			
10/8 – 11/16 (27 days)	<b>Unit 3: MAY THE FORCE BE WITH YOU</b>	Newton’s Laws & Acceleration, Free Body Diagrams, Calculating magnitude & vectors, Newton’s Law of Gravitation,	SP 2 a,b,c,d,e
<b>Benchmark 3</b>			
			
11/29 – 12/16 (16 days)	<b>Unit 4 part I: Obtain &amp; Evaluate, and Communicate</b>	Physics State Science Fair Students engage in student lead physics project base learning & scientific inquiry	Standards will vary  SP 1 - 6
<b>Benchmark 4 (midterm)</b>			



END OF Fall SEMESTER 2021  
 Happy Holidays, see you back  
 next year ...  
**January 4<sup>th</sup> 2022!!!**



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**Spring Semester 2022**

Week	Unit	Topics	Standards
1/4	Welcome Back, Reflection, New Year New Expectations, Back to the Grind		
1/5 – 1/28 (17 Days)	<b>Unit 4 pt II: Drawing Conclusions &amp; Analyzing Results</b>	Science Fair Projects Finalized, Mock presentations, peer review, final editing. Local & Regional GCSU science fair presentations/competitions.	Standards will vary  SP 1 - 6
<b>TBA (x2)</b>	<b>Local Science Fair (JCHS) Regional Science Fair GCSU</b>		
1/31 – 3/9 (27 days)	<b>Unit 5: Conservation Laws &amp; Nuclear Physics</b>	Conservations of Energy, Mass, Momentum; Collisions; Newton's 3 <sup>rd</sup> Law; Radioactive Decay; Nuclear Reactions; Power; Half-life	SP 3 a, b 6 a, b, c
<b>3/10 &amp; 3/11</b>	<b>Benchmark 5</b>		
3/15 – 3/30 (13 days)	<b>Unit 6: Surfs Up.... Waves</b>	Properties & Applications of waves: velocity, $\lambda$ , Hz, Doppler Effect, Amplitude, Snell's Law, Optical Ray Diagrams, etc...	SP 4 a, b, c, d, e
<b>3/31 &amp; 4/1</b>	<b>Benchmark 6</b>		
			
4/11 – 5/11 (23 days)	<b>Unit 7: Thermodynamics &amp; Electricity</b>	Use data to predict bond type, Properties of Bonds; Predict formulas for Stable compounds; IUPAC nomenclature; Balancing	SPS 2a,b,c 3a,b
<b>5/12 &amp; 5/13</b>	<b>Benchmark 7</b>		
<b>Seniors 5/16 – 5/20 Underclassmen 5/23 – 5/25</b>	<b>!!!Final Exams!!!</b>		<b>All Standards SP 1a – 6c</b>
<b><u>SPRING SEMESTER 2022</u></b>  <b><u>The END</u></b>		Ready... Set... <b>SUMMER!</b> 	