



# GL Physics

## Year at a Glance (YAG)

### 2022-2023



First Semester		Second Semester	
1 <sup>st</sup> Nine Weeks – 40 days		3 <sup>rd</sup> Nine Weeks – 45 days	
<b>TEKS</b> <u><a href="#">Introduction:</a></u> <u><a href="#">Processes of Physics Investigations (1 day for the entire unit)</a></u> <u><a href="#">P.1A, P.1B, P.2A, P.2B, P.2C, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E</a></u>  <u><a href="#">Unit 01: Kinematics in One Dimension and Graphing Motion (24 days for the entire unit)</a></u> <u><a href="#">P.1A, P.2A, P.2B, P.2C, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E, P.4A, P.4B</a></u>  <u><a href="#">Unit 02: Newton's Laws of Motion (14 days for the entire unit)</a></u> <u><a href="#">P.1A, P.2C, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E, P.4D</a></u>		<b>TEKS</b> <u><a href="#">Unit 06: Conservation of Momentum (10 days for the entire unit)</a></u> <u><a href="#">P.1A, P.2C, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E, P.6C, P.6D</a></u>  <u><a href="#">Unit 07: Thermodynamics (7 days for the entire unit)</a></u> <u><a href="#">P.1A, P.2C, P.2D, P.2E, P.2F, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E, P.6E</a></u>  <u><a href="#">Unit 08: Waves (18 days for the entire unit)</a></u> <u><a href="#">P.1A, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3D, P.3E, P.7A, P.7B, P.7C, P.7D, P.7E</a></u>	<b>Unit 6: Momentum</b> Students will discuss the functions of vitamins and minerals in food production, compare the effects of food production on water- and fat-soluble vitamins, and assess the interrelationships among vitamins and minerals in food production  <b>Unit 7: Thermodynamics</b> The student will evaluate the various types of food additives such as incidental, intentional, natural, and artificial, investigate the various roles of food additives such as food preservation, nutritive value, and sensory characteristics, and research agencies involved in regulating food additives  <b>Unit 8: Waves</b> Students will describe elements, compounds, mixtures, and formulas related to food science, compare heterogeneous and homogeneous mixtures, use chemical symbols, formulas, and equations in food science
2 <sup>nd</sup> Nine Weeks – 43 days		4 <sup>th</sup> Nine Weeks – 45 days	
<b>TEKS</b> <u><a href="#">Unit 03: Two Dimensional Motion (9 days for the entire unit)</a></u> <u><a href="#">P.1A, P.2D, P.2E, P.2F, P.2G, P.2I, P.2J, P.3A, P.3B, P.3E, P.4C</a></u>  <u><a href="#">Unit 04: Universal Gravitation (5 days for the entire unit)</a></u> <u><a href="#">P.2C, P.2D, P.2E, P.2F, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3E, P.5A, P.5B</a></u>  <u><a href="#">Unit 05: Conservation of Energy (18 days for the entire unit)</a></u>		<b>TEKS</b> <u><a href="#">Unit 09: Electrical and Magnetic Forces and Fields (12 days for the entire unit)</a></u> <u><a href="#">P.1A, P.2D, P.2E, P.2F, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3E, P.5A, P.5C, P.5D</a></u>  <u><a href="#">Unit 10: Current Electricity (16 days for the entire unit)</a></u> <u><a href="#">P.1A, P.1B, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E, P.5E, P.5F</a></u>	<b>Unit 9: Electricity and Magnetism</b> Students will identify the chemical structure of saturated and unsaturated fats, compare the properties of saturated and unsaturated fats, examine the functions of fats in food production, explore methods for controlling fat oxidation, analyze the effects of temperature on fats in food preparation, conduct laboratory experiments using the scientific processes to explore the functions of fats in food production, and create food products using saturated and unsaturated fats



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<p>P.1A, P.2C, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3E, P.6A, P.6B, P.6C, P.6D</p> <p>leavening agents using the scientific processes, and create baked products using various leavening agents</p> <p><b>Unit 5: Conservation of Energy</b> The student will analyze reasons food is fermented, assess the role of bacteria in food fermentation, and prepare various fermented food products</p>	<p><b>Unit 11: Atomic, Nuclear, and Quantum Physics (7 days for the entire unit)</b> P.1A, P.2C, P.2F, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E, P.5A, P.8A, P.8B, P.8C, P.8D</p>	<p><b>Unit 10 Current and Electricity</b> The student will research federal food packaging guidelines, analyze components of appropriate commercial food container, describe controlled-atmosphere packaging, and describe information required on a food label, describe reasons for food preservation, compare methods of dehydration and create a food product using dehydration; analyze various methods of personal and commercial food canning; and examine the various methods of personal and commercial food freezing</p> <p><b>Unit 11: Atomic Interactions</b> Students will examine the food irradiation process, and investigate the pasteurization process</p>
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Resources

1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
g-online textbook, google drive resources	g-online textbook,google drive resources	g-online textbook,google drive resources	g-online textbook,google drive resources