

Science @ KGJSS

Selected Curriculum:

HMH Science Dimensions

Overview & Rationale

Designed for an inspiring, high-impact K–12 learning experience, *HMH Science Dimensions* creates a supportive instructional path for teachers and a dynamic learning environment for students. Teachers guide students to learn through exploration, analysis, application, and explanation—in short, to think like scientists. Activity-driven lessons put students in charge of their learning and empower teachers to guide the self-directed learning process and mastery of standards. The goal of the NGSS is to prepare students to do the science of their time, equipping them for careers in STEM and engineering fields. , *HMH Science Dimensions* three-dimensional learning approach arms students with the tools and habits of mind to apply scientific reasoning and solve STEM problems relevant to everyday life.

Curriculum Components & Unique Features

Individualized Plans
Problem Based Learning Strategies

Evidence-Based Data	<p>Educational Research Institute of American conducted a study related to efficacy among low performing students. The research involved a treatment and a comparison group. The data indicated statistical significance among students that were in the treatment group in comparison to the control. Students were pre-tested. After curriculum implementation, student in the treatment group had higher performance rates than the control. View the links below for more details.</p> <p>https://www.hmhco.com/programs/hmh-science-dimensions/research-results</p>
Projected Outcomes	<p>The Student</p> <ul style="list-style-type: none"> • Students will deepen conceptual understanding through problem-based learning; • Students will demonstrate growth in conceptual understanding via digital interactive lessons; • Students will build proficiency in common core science standards by way of independent practice and high-order thinking; and • Students will demonstrate mastery of rigorous concepts through a leveled and tailored instructional plan. • Students will accurately apply knowledge and cement comprehension • Students will gain knowledge through project based learning and demonstrate increased ability to generate solutions • Student demonstrate growth and understanding of the design cycles through self-directed open-ended project ideas and problem solving
Modifications (if necessary)	

Supplemental Curricula & Additional Strategies	Blow Off S.T.E.A.M. Femme 2 STEM FUSE KGJSS Summer Immersion Program
Partners	University of Chicago-MapsCorp, University of Chicago-School of Medicine. University of Illinois-Chicago, Northwestern University