

Haskell Academy of Science, Technology, Engineering, and Mathematics

We are pleased to introduce our new **Science Technology, Engineering, and Mathematics** magnet program. Haskell STEM Academy offers a fully inclusive, school-wide STEM program. Haskell students will be immersed in an integrated, cross-curricular approach to Science, Technology, Engineering, and Mathematics that is student centered, project oriented, and product based. Built upon a strong foundation in basic language and math proficiencies, students will become fluent and proficient in:

- **Scientific Literacies:** the knowledge and understanding of scientific concepts and processes required in 21st century society
- **Technological Literacies:** the knowledge of what technology is, how it works, purposes it serves, and ways it can be used.
- **Information Literacies:** the ability to evaluate information across a range of media; locate, synthesize, and utilize it effectively.

The “Smart Lab”

The stand alone “Smart Lab” is richly provisioned with state of the art technology and STEM equipment systems. Students have access to over 230 Learning Launchers centered around eight technology systems and core competencies: *Alternative and Renewable Energy, Computer Graphics, Science and Data Acquisition, Mechanics and Structures, Multimedia Design/Computer Aided Publishing, Robotics and Control Technology, and Circuitry and Computer Simulation*. Students will explore and investigate the science and technology behind wind, solar, and hydrogen energy. They will utilize Web based programs and applications such as Adobe Photoshop and Illustrator, 3D Graphics Studio, Stop Motion Animation software, Microsoft Flight Simulator with USB flight yoke, West Point Bridge Designer, Lego NXT Robot Control Software, and Sim City software (urban planning). In preparation for the Next Generation Science Standards (NGSS), students will also be engaged in STEM Science investigations in their Science classes, like CSI Chemistry Lab, Recycled Dragsters, Paper Roller Coaster Lab and more. Students will record all project work from start to finish in an “ePortfolio.”

Rationale for a STEM based curriculum:

Students engaged in STEM learning are acquiring the skills and knowledge necessary for post-secondary and next generation career readiness. According to national reports and university studies, America is losing its global competitive edge because we are not producing a qualified, highly skilled workforce. College students with STEM majors are better prepared for the job market, and they earn higher wages than non-STEM majors. Our goal at Haskell STEM Academy is to prepare our students to become future industry leaders by providing the foundational STEM education as a gateway to more rigorous high school and college technology and engineering programs.

Click the link below to see an article from the National Math and Science Initiative on “Why STEM Education Matters”

[National Math+Science Initiative Article](#)