



BUILD Vision 2021

Vision

Students learn as they design— and redesign—their projects in an environment that fosters a desire to constantly refine and improve their ideas.

Located in Luck Leadership Center, the school’s BUILD Lab brings students together to create using high tech tools such as a 3D printer or simple materials such as cardboard. Students are tasked with activities involving specific problems that allow them to solve in their own ways. They design and create machines, art projects, or devices in ways that focus on process, not product.

The Upper School curriculum includes a BUILD primer class for every 9th grade boy. In addition, students can take an 8th Grade BUILD elective and an Upper School “Make” elective course that utilizes the space. The BUILD Lab is open to boys during free periods and lunch to have time to tinker on projects of interest.

The Build Lab welcomes teachers and classes from across campus to partner with the BUILD faculty to create meaningful hands-on projects to support the classroom curriculum.

BUILD Classes and Activities

- LS Arts Rotation
- LS Robotics
- MS Electives
- MS Robotics
- US 9th Grade Class
- US Elective or Independent Study
- US Robotics
- US After School Activity

Overview of Needs

- Spaces
 - Lab in all three divisions

- Robotics rooms in all three divisions
- Personnel
 - 1 FTE in LS and MS - for co-teaching with classroom teachers
 - 2 FTE in US to ensure space is available for students to use all day with adult coverage and co-teaching with classroom teachers
 - Robotics Faculty in each division
- Professional Development for Faculty
 - conferences
 - year-long cohort programs
 - in-house
- Large Equipment (to be replaced every 5 years)
 - 3D Printers - 2 per division
 - 3D Resin Printers - 1 US
 - Laser Cutter - 1 MS/1 US
 - CNC Router - 1 US
 - Cooking Equipment
 - Sewing Machines
 - Other - As technology improves, other large equipment will be available
- Consumables - for individual projects and to have in the spaces
 - Ozobots
 - Makey-Makeys
 - Raspberry Pis
 - Micro:bits
 - Electronics Kits
 - Cooking Utensils
 - Other - batteries, fabric, food, paper, etc.