

Q: Why a Design Lab?

A: To Develop the Capacity to Innovate.



- We need enhanced spaces at the high school to support a design/think curriculum in science, technology, engineering, art and math (“STEAM”).
- We need a place for students to create, innovate and build prototypes with actual tools, 3D printers and other equipment.
- We need a home for programs in engineering, applied math, green architecture and environmental science, and spaces that encourage social entrepreneurship and enhance teaching in the humanities.

Creating a 21st Century Education for Our Students



Collaborative Learning



Focused Learning



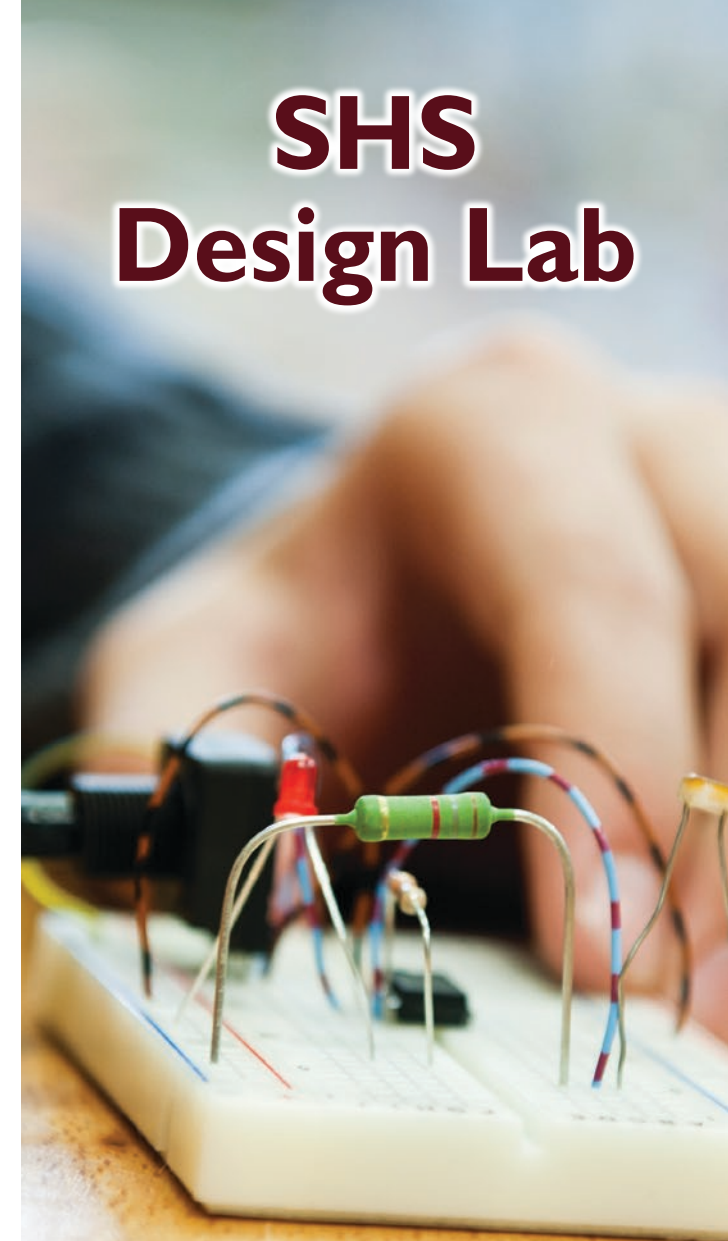
Hands-On Learning



**Scarsdale Schools
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SHS Design Lab



**Encouraging Creativity
& Experiential Learning**



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Creating a Design Lab for Scarsdale High School

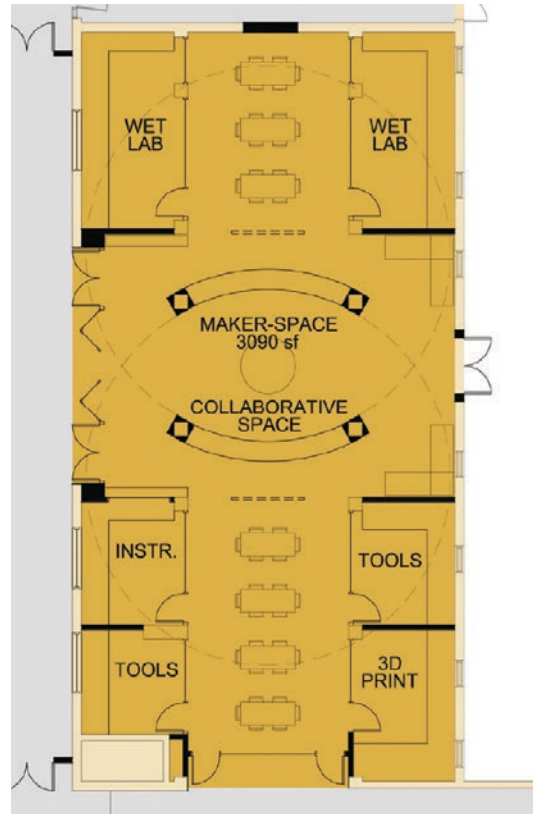
What is the D-Lab?

A new workspace, equipped with technology and real tools. The Design Lab will be located in the now-defunct autobody shop, adjacent corridor and the current Physical Education offices. The budget includes expenses of furniture and instructional technology equipment.

Why Do We Need a D-Lab at SHS?

- A Design Lab/Maker Space provides 21st Century educational skills to enable students to learn in a hands-on, skill-based way.
- The D-Lab would include traditional and non-traditional open work areas that feature 3-D printers, an electronics lab, laser cutters, solar and plant science equipment, and a wide variety of tools.
- The D-Lab would enable students to prototype, build, model, test, tinker, take apart and innovate. Students' fine motor, problem-solving, and spatial skills will be enhanced, while igniting imagination and creativity.
- The District is committed to developing an enhanced STEAM curriculum – including Science, Technology, Engineering, Art and Math – and new teaching methods to fully utilize the D-Lab and Maker Space.
- New programs will emerge, including architecture, robotics, engineering, industrial design, ecological design and others, as well as new possibilities for innovation in existing curricula.

Total Cost:	\$2,480,000
BOE Contribution:	<u>680,000</u>
To be Raised:	\$1,800,000



Total Space: 3,090 sq ft

Components:
Maker Space
Wet Lab
Tool Area

Design Labs and Maker Spaces are being created in colleges and universities across the country, from Cambridge to Palo Alto.



Maker Spaces are being created now in Scarsdale's Elementary Schools. A Design Lab at Scarsdale High School would meet the needs of our oldest students on their way to college and jobs.