

Guidance and suggestions and examples on PLTW Lab Design and Excerpts of PLTW Classroom/Lab descriptions

<http://www.pltw.org/LabLayout.shtml>

PLTW lab designs and suggestions from the PLTW Web site

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pltw lab layout examples

Lab Layouts

We have had a number of requests on how to properly set up a lab for PLTW courses. Below are MS power point files (.ppt) that should help.

Indiana Project Lead The Way - Purdue University and Indiana Department of Education have been most helpful in providing presentations of Sample Lab Designs broken down by course.

Please right click and save the power point

Related Links

- [About Us](#)
- [How to join PLTW](#)
- [FAQ for teachers](#)
- [Teacher Registration](#)
- [PLTW Curriculum](#)
- [Certifications](#)
- [Partnership Teams](#)
- [Registered Teacher Login](#)

Lab Design Examples

- [General PLTW Lab Layout](#) (1.9M)
- [Gateway To Technology Lab 1](#) (3.4M)
- [Gateway To Technology Lab 2](#) (3.4M)
- [Gateway To Technology Lab 3](#) (3.3M)
- [Introduction To Engineering Design Lab 1](#) (3.7M)
- [Introduction To Engineering Design Lab 2](#) (3.5M)
- [Principles Of Engineering Lab](#) (3.4M)
- [Digital Electronics Lab](#) (3.6M)
- [Civil Engineering and Architecture Lab](#) (3.8M)



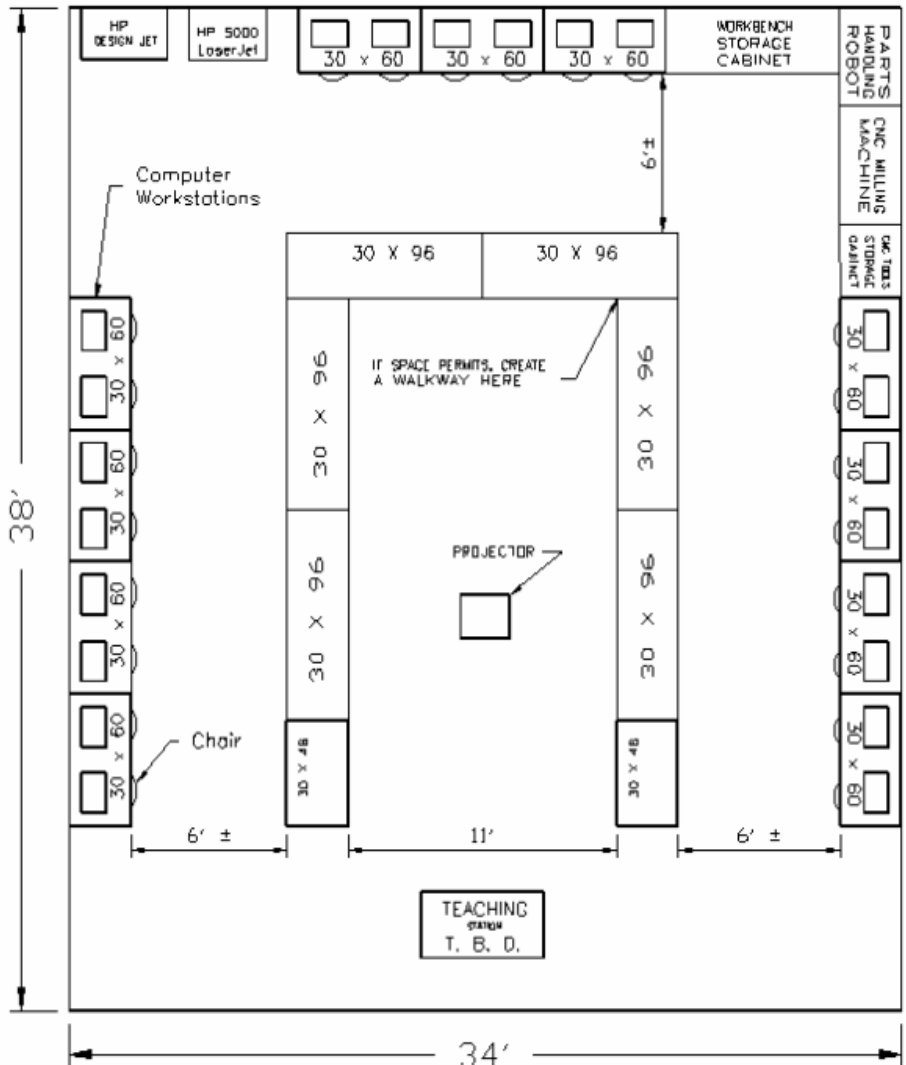
Though these resources are provided to help in your PLTW classroom design Please help us to understand what the PLTW classroom(s) will look like in your school(s)

<http://www.pltw.org/eslab.shtml>

The general technology computer lab layout (see below) is intended to provide some general guidelines for the placement of equipment and furniture used in the PLTW high school and middle school programs. It applies a "U" shape layout, which facilitates students seated in a conference setting. The layout also enables the student to use one seat at two locations: the computer workstation and the conference workstation. It is also an efficient utilization of space and permits the placement of computer network wiring around the perimeter of the lab.

The equipment and furniture displayed use the actual sizes of furniture that is listed on the PLTW cooperative equipment/furniture bid list. The drawing is to scale.

When one examines the layout drawing, consideration must be given to each school's unique needs as well as specific space available. You may not be able to use our dimensions because the classroom you have may not accommodate the shape of the sample lab layout we are suggesting. Please feel free to modify the lab layout in a manner necessary to match your specific needs.





Fredrick Rudolph High School - Future PLTW classroom and Lab

Instructions:

Please include as many pages, pictures and graphics and annotations as needed to accurately depict the rooms your schools will be assigning to PLTW classes.

These are only examples and as single pictures fall short of giving a clear vision of the rooms the schools have identified and what changes they intend to make to prepare for PLTW classes

Example A:

Pictured above is a science lab where we will hold all of the PLTW courses for our school. There is plenty of room for working on smaller projects. The room is next door to our shop area and students can use those facilities for larger prototypes when needed. 25 Computers are located around the edges of the room and a digital projector will be mounted in the ceiling for the instructor. Please see the floor plan sketch . The room is 32' x

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Please label each picture if multiple schools are represented



E. H. Armstrong Middle School – future PLTW lab

Example B:

PLTW will be held in this remodeled library space. There are currently 14 computers around the edges of the room that meet or exceed the requirements of PLTW and we have 7 new computers ordered. We will be adding storage cabinets on the back wall and two more classroom project tables. Students will sit at the project tables during information sessions or lectures. The room is 30' X 40' and.....