

Title: How to Build A PC

Synopsis: Kids learn how to take standard PC components and assemble them and install OS to build a personal computer or servers. Kids work in teams of to build and install a system. Target is to put the final systems into the Library.

Materials: \$25 for materials fee which will go to offset some of the supplies. Classroom w/ Whiteboard for 1 hr after school.

Duration/Frequency: 5 weeks; once per week

Audience: Grades 4-5

Week 1: Major computer parts review: Motherboard, CPU + Heatsink/Fan, Hard disk, RAM, Optical drive, Floppy Drive, Removable Flash reader Case + Power Supply, Graphics Cards, and Network cards, Keyboard, Mouse, Speakers, Monitor. Learn about electro-static safety. Install motherboard and memory into computer.

Week 2: Quiz on wk 1 materials. Reminder about electrostatic safety. Install hard drive and optical drives into system.

Week 3: Quiz on wk 2 materials. Install floppy drive and USB flash reader.

Week 4: I Quiz on wk 3 materials. Complete drive installation and begin cabling of the system. Learn how to wire up the front panel.

Week 5: Complete front panel wire-up and test boot to BIOS and POST. Review course and receive certificates of completion.