



You might learn to make pictures like this in  
Introduction to Computer Science!!

# NEW

## Community Connections Technology Summer Courses 2010

For Middle School, High School and Adults



To sign up for either course, please fill out the form below and send it to  
Community Connections, 73 Main Street #33, Montpelier, VT 05602.  
Questions? Call Heather or Ginny at 223-3456  
We will need a current (2010-2011) registration form. You can download one at  
[www.communityconnections.us](http://www.communityconnections.us).

My child(ren) \_\_\_\_\_  
Grade(s) \_\_\_\_\_, School \_\_\_\_\_  
may attend the following camp programs.

**Intro to Computer Science**

**Preparing for Algebra through Robotics Programming**

Parent Signature \_\_\_\_\_

Daytime phone # \_\_\_\_\_ other phone # \_\_\_\_\_

Parent name \_\_\_\_\_

Address \_\_\_\_\_

Email \_\_\_\_\_

I have enclosed \$ \_\_\_\_\_ to cover my child's enrollment (cash or  
checks to WCSU / Community Connections).

## Introduction to Computer Science

*How to write, speak, and think in the language of machines.*

A **new** two-week summer course offered through Community Connections - Noah Warnke, instructor

**For middle and high school students and adults**  
July 19-23 & July 26-30, 9:00 am to 3:30 pm at **U-32**.  
Bring a bag lunch.

We all use computers as an essential part of our daily lives. Have you ever wondered, though, what it's like to \*make\* computer programs instead of just \*use\* them? This course is intended for anyone who wants to learn more about the art and science of programming, with a focus towards beginner and intermediate levels. We will cover a wide variety of topics, from the history of computers, to mathematical concepts important to computer science, to how to come up with algorithms (sets of instructions) that make a computer do exactly what you want. Impress your friends and family with your own computer programs, save time on homework assignments or work, improve your math skills, and more! Students will learn concepts through a combination of lectures, individual computer time, and group projects (which may include making computer games, if there is interest.) Course credit may be offered on an optional basis. All computers and necessary software will be provided.

Fee: \$150 for both weeks. For information on need-based tuition assistance, contact Community Connections.

*Noah Warnke is a computer science major at Cornell University. He graduated from Montpelier High School and wants to share his passion for computer programming with his home community.*

## Preparing for Algebra through Robotics Programming

A Special 2 week Course from Community Connections and Tertl Studos.

### For 6th to 8th graders

August 9-13 & August 16-20, 9 am to 2 pm at **Main Street Middle School**. 8:30 arrival time is okay!  
Bring a bag lunch.

Learn to drive and program a robot. Teach it to find and follow you or negotiate a maze. Create a shy robot or a robot that can guard your room. Perhaps you will even be able to get two robots to race, play tag, or dance.

This experimental workshop is built around a new visual and interactive robot programming language called Tertl which enables students to construct robot control programs on the first day. We will use this tool to look for new ways to help students understand core algebraic ideas such as variables, functions, graphs and inequalities, and to use these ideas creatively. This mini-course is part of an educational research study.

There is an \$80 fee. For information on need-based tuition assistance, contact Community Connections. Students will receive a \$15 stipend for full attendance.

*Tertl Studos is a small company based in Montpelier VT and specializing in mathematical and computational tools for learners. Development of its robotics programming workshop is funded by a National Science Foundation small business research grant.*

