

2016

Computer and Technology
Training Resources for Families



CENTRIQ
TRAINING

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Computer and Technology Training Resources For Families

Dear Parents,

Thank you for taking the time to consider adding or enhancing the computer education portion of your child's homeschooling program. This is a short guide to help you use the free computer training resource guide provided by Centriq Training. The resource guide has been divided into five age/grade categories with various resources for each group. Below are the primary recommended computer skills that should be focused on by each age group. For an electronic copy of this document, go here: <http://centriq.com/blog/homeschool-parents-teach-your-child-to-code>

Preschool – 2nd Grade

Early elementary students can begin their computer education by learning to navigate a modern computer environment. This primarily involves mastering basic mouse usage including moving the cursor, right and left mouse clicks and clicking and dragging. The mouse tutorial on gcflearnfree.org and Course 1 on code.org, as well as simple elementary computer games are good starting points for beginning computer users.

3rd – 5th Grade

The ability to type has become a very necessary and basic computer skill. Even for people with non-technical jobs, the ability to type an email is an important task. Upper elementary students can use the various typing tutors and games to help build this very important skill. We highly recommend Typing.com to learn the basics and then NitroType.com to build speed and accuracy.

6th – 8th Grade

Many jobs desire, if not require, employees to have a basic understanding of office applications such as Word, PowerPoint and Excel. Students can learn how to use the various office applications by utilizing the many Microsoft Office related resources available on gcflearnfree.org. The use of Word, PowerPoint and Excel can be integrated into other aspects of your student's education. For example, your child can type a book report in Word or create a science or history presentation in PowerPoint. For users that don't have Microsoft Office available, a free Microsoft Live account can be created and free online versions of Microsoft Office programs can be used by visiting office.live.com.

In addition to an understanding of the basic Office applications, middle school students with an interest in computer programming can begin working on programming fundamentals by utilizing graphical programming tutorials and programming resources. I strongly encourage all middle school students to complete Courses 2-4 on Code.org to get a great introduction to computer programming.

9th – 12th Grade

High school students that have a desire to go further in their computer programming knowledge can utilize the various programming resources such as CodeAcademy.com and KhanAcademy.org to begin learning how to program outside of the guided graphical programming models. By simply learning the basics of HTML and CSS, students can begin to create web pages and then eventually learn how to integrate JavaScript and jQuery into their sites to add user interactivity.

Post Graduate

We would encourage graduating seniors or other post graduates who are seriously interested in pursuing a career in the Information Technology (IT) field to strongly consider Centriq Training's TechSmart KC program. As an alternative to the traditional 4 year college route, Centriq Training has created a proven 4 month program for training individuals with the skills needed to gain entry level IT positions in either web programming or IT administration/networking. Over 800 Kansas City companies have hired TechSmart KC grads. To learn more about our 4 month TechSmart KC program visit us online at www.centriq.com/4months or call Kim Bridges at 913-322-7073.

Thank you for taking the time to consider the resources that we have collected to help you achieve the computer education goals that you have for your children.

Centriq Training

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PRESCHOOL – 2ND GRADE

Board Game

Robot Turtles <http://www.robotturtles.com/>

Computer Basics

Using a Mouse <http://www.gcflearnfree.org/mousetutorial>

Computer (Games)

Code.org (Course 1) <http://www.code.org>

Bits Box <http://www.bitsbox.com>

3RD – 5TH GRADE

Typing (Tutor)

Typing.com <http://www.typing.com>

Sense Lang <http://www.sense-lang.org/typing/tutor/keyboarding.php>

Typing Club <http://www.typingclub.com/>

Typing (Games)

Fun To Type <http://www.funtotype.com/>

Nitro Type <http://www.nitrotype.com/>

Z-Type <http://phoboslab.org/ztype/>

Internet

Internet 101 <http://www.gcflearnfree.org/internet101>

Internet Safety for Kids <http://www.gcflearnfree.org/internetsafetyforkids>

Email 101 <http://www.gcflearnfree.org/email101>

Browser Basics

 Chrome <http://www.gcflearnfree.org/chrome>

 Internet Explorer <http://www.gcflearnfree.org/internetexplorer>

Programming

Code.org (Courses 2, 3 & 4) <http://www.code.org>

Bits Box <http://www.bitsbox.com>

Programmable Circuit Boards

Raspberry Pi <https://www.raspberrypi.org/>

Arduino <https://www.arduino.cc/>

6TH – 8TH GRADE

Computer Basics

General Computer Basics	http://www.gcflearnfree.org/computerbasics
Macintosh OS Basics	http://www.gcflearnfree.org/macOS
Windows OS Basics	http://www.gcflearnfree.org/windows
Mac & Windows OS Cheat Sheets	http://www.customguide.com/cheat-sheets/

Typing (Tutor)

Typing.com	http://www.typing.com
Sense Lang	http://www.sense-lang.org/typing/tutor/keyboarding.php
Typing Club	http://www.typingclub.com/

Typing (Games)

Nitro Type	http://www.nitrotype.com/
Z-Type	http://phoboslab.org/ztype/

Internet

Internet 101	http://www.gcflearnfree.org/internet101
Internet Safety for Kids	http://www.gcflearnfree.org/internetsafetyforkids
Internet Safety	http://www.gcflearnfree.org/internetsafety
Email 101	http://www.gcflearnfree.org/email101
Browser Basics	
Chrome	http://www.gcflearnfree.org/chrome
FireFox	http://www.gcflearnfree.org/firefox
Internet Explorer	http://www.gcflearnfree.org/internetexplorer
Search Better	http://www.gcflearnfree.org/searchbetter
Warriors of the Net	http://www.warriorsofthe.net/

Office Applications

Creating a Microsoft Account	http://www.gcflearnfree.org/microsoftaccount (Enables free use of Microsoft Office 360 Online)
Microsoft Word	http://www.gcflearnfree.org/word2013
Microsoft PowerPoint	http://www.gcflearnfree.org/powerpoint2013
Microsoft Excel	http://www.gcflearnfree.org/excel2013
Microsoft Excel Formulas	http://www.gcflearnfree.org/excelformulas
Alternative MS Office Versions	http://www.gcflearnfree.org/topics
Microsoft Office Cheat Sheets	http://www.customguide.com/cheat-sheets/

Programmable Circuit Boards

Raspberry Pi	https://www.raspberrypi.org/
Arduino	https://www.arduino.cc/

Graphical Programming

Code.org (Courses 2, 3 & 4)	http://www.code.org
Scratch	http://scratch.mit.edu/
PluralSight: Learn to Program with Scratch	http://bit.ly/23oRDkA
Super Scratch Programming Adventure!	http://amzn.to/1SJrsKz
Scratch Programming in Easy Steps	http://amzn.to/1SZpbxt
Stencyl	http://www.stencyl.com/
Learning Stencyl 3.x Game Development	http://amzn.to/1N4a5aH
Game Salad	http://www.gamesalad.com/
The Official GameSalad Guide to Game Development	http://amzn.to/1XqQUIH
GameSalad Beginners Guide	http://amzn.to/1S0WjTd

Programming/Development (Using Code)

Basic HTML for Kids	http://www.pluralsight.com/courses/teaching-kids-basic-html
RobotMind.net	http://www.robomind.net/en/index.html
Code Combat	http://codecombat.com

9TH – 12TH GRADE

Includes all 6th-8th grade resources in addition to the following:

Programming/Development (using code)

KhanAcademy	https://www.khanacademy.org/computing/computer-programming
Codecademy	http://www.codecademy.com/learn
Dash	https://dash.generalassemb.ly/projects
Build Apps with App Inventor	http://www.pluralsight.com/courses/android-beginner-app-inventor

Coding Events

CodeDay	http://www.codeday.org
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Cyber Security

AFA Cyber Patriot	http://uscyberpatriot.org
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POST GRADUATE

Coding Events

CodeDay	http://www.codeday.org
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Career Preparation

Centriq Training - Career Track (Programming or I.T. Administration)	http://www.centriq.com	913-322-7000
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About Centriq

Centriq Training - the only Kansas City-based Gold Microsoft Learning Partner - is committed to the growth and development of Kansas City's IT workforce. As the largest full service technology training company in the Midwest, Centriq has provided leading-edge technology training since 1989.

Every year, Centriq's Corporate Division trains more than 3,000 IT professionals from 500+ Kansas City area companies. With 20 classrooms and 24 full-time instructors, Centriq is the only Kansas City provider offering "instructor-in-the-classroom" IT training. Centriq also offers online classes as well as custom/private training for IT professionals.

Centriq's [TechSmart KC program](#) is an accelerated, hands-on technology training program that provides entry-level IT job skills to individuals with little or no technology experience. After just four months our grads are ready to start a new career in IT as entry-level IT Professionals or Coders. Centriq's Placement Division helps place these individuals with the customers of our Corporate Division. In 2015, TechSmart KC trained and helped place 300 individuals into new IT careers.

For more information about Centriq Training, please visit: www.centriq.com