

Samsung Galaxy Tab® 4 Education Setup and Management Guide

Your Samsung Galaxy Tab® 4 Education runs on the Android operating system, connects to networks by Wi-Fi, and contains 16GB of storage space. It will provide you and your students with access to the STEM curriculum and will support a variety of programming options.

This guide will help you:

- Charge and label your Samsung Galaxy Tab® 4 Education
- Create a Google Account for your Council
- Set up your Samsung Galaxy Tab® 4 Education
- Load and configure apps
- Create a standard “core image” of important software
- Lock devices to protect against unintended usage and/or software installation
- Learn about storage, charging and other device security scenarios

Requirements:

- Power strip/surge suppressor and power source
- Wi-Fi connection with Internet access
- Labels for each device (using a label machine, if available, or printed and taped labels, if not)
- Secure storage location

Optional:

- External keyboards can be sourced through Best Buy or Amazon for approximately \$80 to \$100 each.

Section 1: Charge, Label and Protect Your Devices

Charging time will vary, but the device must be fully charged before continuing with installation. A typical out-of-the-box test device requires approximately three hours to charge. Your tablet will indicate when charging is complete.

While your devices are charging, label each with a labeling or inventory machine. If your Council does not have such equipment, you may print and tape labels to a secure location on each device.

A ruggedized, protective case was shipped with each device (in separate packaging). Be sure to put these on devices before bringing them into the classroom and do not allow students to remove them. You might want to place a second label on the back of the cover to ease tracking.

Section 2: Create a Google Account for Your Council

Create a Google Account for your Council at <http://gmail.com>. Do not use a personal email address or personal Google Account to configure your devices.

When creating an account, be sure to use a Council leadership email account phone number for the current email address and phone information – not a personal email address. Keep the username and password handy for the installation process.

Section 3: Set Up the Samsung Galaxy Tab® 4 Education

1. Initial Configuration

Note: The devices require an available Wi-Fi connection to configure, connect to the Internet, or access downloadable software required for the program. Be sure you have an accessible Wi-Fi connection before continuing.

When your device is first powered up, it will require you to enter Wi-Fi connection details, information about date and time, and information about the Google Account you created earlier in the process.

We do not recommend connecting your device to Google+. Google+ interconnectivity could result in your device sharing information online without knowledge, approval or consent. However, some Councils may opt to utilize this functionality later. We recommend selecting “Not Now” as a default option.

Your device will also ask you to configure backup and restore options, location defaults, and to post notification updates. We recommend backing up your device data. Some apps also require location data to function (including those recommended below). We recommend turning “Wi-Fi Scanning” off. We also recommend turning “Communication from Google Play” off by unchecking the checked boxes.

We do not recommend adding a credit card to the device or the account. This can result in significant unintended consequences!

Finally, you may wish to give each device a unique name (i.e., Camp Fire Heartland 1; Camp Fire Heartland 2; and so on). This can help with device management. You may also want to physically label devices with the same name using a label machine or a printed and taped label. Use the first name to set the device name; leave the last name blank.

2. Configure a Samsung Account

You may wish to create a Samsung Account. Samsung offers some additional tools that may be of use, including a device locator. The device locator can be used to identify the address-level location of the device, should it go missing.

To configure the Samsung Account, simply create an account when prompted. Note that you will also have to check the Google Account email created earlier in the process to verify the user and activate the account.

Log in to the Samsung account to utilize tracking, privacy and other management controls.

Section 4: Load and Configure Apps

Now that your device has been set up, you must install the required applications for the Camp Fire Building Blocks curriculum. While connected to Wi-Fi, open the Google Play Store. Search for and install the following free apps on the home screen:

- FlipaClip – Cartoon animation
- Draw Express Diagram Lite
- Picasso
- Google Earth

The following items are already on the tablet but should be located and moved to the home screen for ease of access:

- Calculator
- Google Maps
 - This can be found in the Google folder. Pull it from the folder to the home screen, open the app and agree to Terms of Use.

Section 5: Bookmark Key Sites

Implementing the curriculum will be easier if key sites are bookmarked on each tablet.

*NOTE: If you bookmark all of these on the Google Account of the **first** tablet you set up, they should automatically populate to every tablet you set up thereafter using that Google Account.*

- Microsite for Council Leaders
www.scholastic.com/STEMSparks

- Microsite for Kids
 - K-2: www.scholastic.com/sparks
 - 3-5: www.scholastic.com/sparks2
 - 6-8: www.scholastic.com/sparks3

URLs referenced in challenges:

- Architectural Models
<http://architecturalmodels.tumblr.com/>
- Building Big Website
<http://www.pbs.org/wgbh/buildingbig/>
- Building Big Website – Challenges
http://www.pbs.org/wgbh/buildingbig/abt_chall.html
- Building Big Website – Labs
<http://www.pbs.org/wgbh/buildingbig/lab/>
- SkyCycle - “Plans for ‘Cycle Utopia’ Above London’s Rail Lines,” BBC News London
<http://www.bbc.com/news/uk-england-london-25549789>
- Water-Generating Billboard – “UTEC – Potable Water Generator,” YouTube
<https://www.youtube.com/watch?v=35yeVwigQcc>
- Makoko Floating School – “School at Sea,” New York Times Magazine
http://www.nytimes.com/interactive/2013/05/26/magazine/26look-lagos.html?_r=0
- Google Self-Driving Cars
<http://nyti.ms/1i5NSHt>
- Bluefin-21 Submersible
<http://nyti.ms/1ibMp2l>
- Soccer
<https://www.washingtonpost.com/news/innovations/wp/2013/11/21/the-soccer-ball-that-helps-kids-in-underdeveloped-areas-finish-homework/>
- Flowchart Examples
<http://bit.ly/1qYGJcP>
- Movie Storyboard Examples
<http://screencrush.com/movie-storyboards/>

Optional URLs for additional reference:

- How Stuff Works
<http://www.howstuffworks.com/>
- “Great Inventions – Great Inventors,” Edinformatics
http://www.edinformatics.com/inventions_inventors/
- “What are the 10 Greatest Inventions of Our Time?” Scientific American
<http://www.scientificamerican.com/article/inventions-what-are-the-10-greatest-of-our-time/>
- “The Ultimate STEM Guide for Kids: 239 Cool Sites About Science, Technology, Engineering and Math,” Master’s in Data Science
<http://www.mastersindatascience.org/blog/the-ultimate-stem-guide-for-kids-239-cool-sites-about-science-technology-engineering-and-math/>
- “35 Urban Innovations We’re Watching This Year,” Mashable
<http://mashable.com/2012/12/31/top-global-innovations/>
- “Engineering for Kids,” Science Kids: Fun Science and Technology for Kids
<http://www.sciencekids.co.nz/engineering.html>
- “STEM Careers: Just for Students,” National Alliance for Partnerships in Equity
<http://www.napequity.org/professional-development/counselor-training/stem-careers-students/>

Section 6: Create User Controls and App Permissions

Be sure to set up a COUNCIL USER profile. Click on Settings > Users. “Add User” is a small icon in the top right corner. Add a restricted profile.

First, the device will ask you to create a screen lock. This becomes your Administrator password, as it allows anyone with the password to access the full device functionality (e.g., installing software, etc.).

Use a password for your screen lock, not a finger motion or PIN. Finger motions and PINs are not secure for the Council, as it will only take students a little while to figure them out.

For your password, select a short phrase – something you will remember, but that will be hard to guess. For example, “LightYourSpark” or “LuckyComputer.”

Once you have set a password, it will ask you to configure the account you have just created. Click on the account name to rename it to something recognizable, like Camp Fire Student. Then, select the applications you would like for the restricted account to access.

These applications can include:

- Calculator
- Chrome (for Web browsing, if desired)

- Picasso
- FlipaClip – Cartoon animation
- Google Earth
- GoogleMaps
- Draw Express Diagram Lite
- WorldClock
- YouTube (if desired)

Section 7: Storing, Charging, and Checking Devices In and Out

It's exciting to give students the opportunity to work with mobile devices after school, but that requires significant staff responsibility. It's very important to safeguard these devices, as they present a tempting opportunity for students to make poor choices. Never leave your Samsung mobile devices unaccounted for or unattended.

1. Device Storage

Each Council has determined how many sites will store the tablets overnight. Each storage site is being equipped with Lock N Charge cages and/or carts depending on the amount of tablets assigned to that location. Please remember to lock tablets in their storage device when unattended.

Cages

- Store up to 10 tablets
- May be mounted to the wall or on a desk

Carts

- Store up to 40 tablets
- May be bolted to the floor or a wall

2. Checkout System

A checkout system is essential if students are going to take tablets during an unstructured period or in a shared room. This can look much like a sign-in/sign-out binder used for visitor check-in purposes – with columns for the student's name, check-out time and check-in time.

Tip: Be sure that the student is who they indicate they are in the sign-out sheet, and that you can read the name written. If tablets are numbered then have the student write down the number of the device they will be using.

While the tablets are in use, be sure you know where they are at all times. If only some of the devices are checked out, be sure the storage location is securely locked before moving away to a new area, or leading the students elsewhere to run a program.

When students check their devices back in, once again, initial the check-in line and time. Most critically, be consistent in implementing your checkout/check-in program.

Section 7: Troubleshooting Contacts

If you require assistance with your Samsung device, applications or software, please find the appropriate contact below. Note that Camp Fire is only able to provide limited support as listed. We are unable to provide extended support for devices or applications unrelated to the Samsung grant.

- **Samsung Tablets:** Your Samsung Tab® 4 Galaxy Education has limited coverage under Samsung's warranty for a period of one year. Should you encounter issues with your tablet, call Samsung support at 1-866-SAM-4-BIZ. A service representative will provide available support over the phone. If you require a "proof of purchase" while contacting Samsung support, please contact Camp Fire staff at james.martinson@campfire.org. Other tech questions can be directed to Chris.Wagner@campfire.org.
- **Building Blocks Curriculum:** If you have questions about the Curriculum, please contact james.martinson@campfire.org.