Upgrading school device to Android 4.1

Please let me know if you face any problems. You can visit me during office hours (Monday 1–2pm or by email) if you get stuck somewhere.

What you need:

1. USB cable
2. Windows PC
3. A fully charged phone (or connect it to a charger after you're done copying files from PC). This is important: you might have a bricked phone if it dies in the middle.
4. All the following files:
   1. SuperOneClick (Info about “virus” – http://goo.gl/i4ZKpA)
   2. All files from Google Drive folder
   3. nt3srooter from either of these links (Source: XDA Developers):
      http://depositfiles.com/files/hn8tn6141
      or
      http://www.mediafire.com/?7yq3wo5vl3odz4k

Step-by-step instructions:

1. Enable USB debugging on the device: From Home screen press Menu Button (3 horizontal lines hardware button) → Tap on Settings → In Settings menu go to Applications → Development → Check USB Debugging.
2. Connect the device to your Windows PC.
3. Download all the files from here. Keep nt3srooter and SuperOneClick on your PC and copy the other 3 files to your device's SD card (not inside any folder and do not extract). These 3 files are:
   1. update.zip - Custom recovery which allows you to install 3rd-party OS among other things
   2. cm-10.0.0-UNOFFICIAL-BETA1-espresso_build1.zip - The operating system that you are going to install on the phone.
   3. gapps-jb-20120726-small_armv6.zip - Google apps (such as Play Store, Gmail, Google Search)
4. Extract SuperOneClick.
   1. Note: Ignore any warnings your antivirus might throw at you when you extract SuperOneClick. The AV software is red-flagging it because SuperOneClick will try gaining root access on Android devices, which can be potentially harmful. But we know what we are doing here.
5. Launch SuperOneClick as Administrator. Click on Shell Root and let it do its magic.
6. Disconnect the phone and go to Settings → Connect to PC → Choose Charge Only. Also disable WiFi from Settings → Wireless → Uncheck Enable Wifi. Keep your phone at the
Wireless settings screen.

7. Connect it to PC again.
9. Launch mt3gsrooter.exe. Click on Root me and let it do its thing. Turn on WiFi when it says so. When it finishes, it will restart the phone in the Bootloader menu.
10. Push the Power button and select BOOTLOADER. It will become unresponsive for a while and start loading ESPRIMG.zip with a progress bar on upper right corner.
11. When it’s done, press Vol Up to choose yes for Update. Let it complete. When that is done, the phone will have Android 2.1 but we are not going to use it. This was only to get root access and install a different OS.
12. Push Vol Down and choose No when asked for a reboot. (If you did say Yes to Restart, switch off the phone and press Vol Down + Power to turn it on. This will turn it on in the Bootloader screen.)
13. Now you are Back in the Bootloader menu, choose Recovery.
14. Push Vol Up and Power when the screen has a picture of a phone with red exclamation mark.
15. In the Android system recovery 2<e>( if it says 3<e> the phone still has Android 2.2), choose to apply sdcard:update.zip. This will take you to ClockworkMod Recovery. We are nearly there now.
16. In ClockworkMod Recovery, you can use the trackpad (the big black button) for moving up/down and selection and the hardware back button to go back to last menu. Go to install zip from sdcard → choose zip from sdcard → cm10.0.0-UNOFFICIAL-BETA1... Choose yes in the next screen.
17. When the update finishes, again select choose zip from sdcard. This time select gapps-jb-20120726-small_armv6.zip.
18. When that finishes, go back and select wipe data/factory reset followed by wipe cache partition.
19. That’s it, the phone now has Android 4.1.

Note:
1. You might see a popup saying WiFi calling has stopped when you restart the phone. Just tap on OK while you are setting the phone up. Then go to the App menu, and drag Wifi Calling to App Info and tap on Disable.
2. To enable software keyboard, go to Settings → Language & input → Tap on Default and turn Hardware Keyboard off.

Source: XDA Developers

Source: Dr. Rajiv Ramnath’s CSE 5236 page