

# Worksheet Session 4 – Tablets and Android Apps

## Activity 1 - Resources

You will be using a tablet computer but it is useful to have a larger PC or laptop to view resources.

1. Log in to the Community of Practice and navigate to Session 4 : Android Tablets, educational apps, content and maintenance
2. Make sure you can see the Topics, Resources and Self-Assessment
3. Find the Alcatel OneTouch Evo7 Manual and download it (PDF) and open it.
4. Find the Android 4.1.1 User Guide, download and open it.
5. You can refer to these two guides as you learn the Tablet and Android features

## Activity 2 – Hardware Features

1. Follow the facilitator as he demonstrates the hardware features
2. Refer to the Alcatel manual.
3. Identify the features:
  - Hardware buttons
  - Camera
  - Battery
  - Cards and other user slots
  - Micro USB
  - SIM module
  - ON/OFF/SLEEP

## Activity 3 – Learn the basic operating system functions.

1. Follow the facilitator as he demonstrates the hardware features
2. Refer to the user guides
3. Try out the operating system features:
  - Lock screen – swipe to right
  - Home screen – swipe sideways
  - Main Android buttons : Home, Back, Background
  - Notifications – check battery level
  - Common settings
  - All settings
  - Apps screen
4. Open Play Store and find Settings
  - Change “Auto-update apps” to “Do not update apps”
5. Check notification area for active downloads and stop them
  - If your tablet has started downloading updates, cancel them. Your facilitator will show how.
6. Drag Chrome to Home View
7. Practice opening/using some apps (suggested : Camera, Gallery)

## Activity 4 – Connect to Wi-Fi Networks

1. Open Common Settings
2. Try turning Wi-Fi ON/OFF
3. Try changing between Wi-Fi networks
4. Try a Networks with security (password)
5. Reconnect back to the UAP Network for your room
6. Check notifications area for connection status

## Activity 5 – Log on the Portal

1. Start Chrome Browser
2. Log in to Portal (with tablet)
3. Navigate to some educational resources
4. Access OwnCloud
5. Access Internet (try [www.nkwiry.com](http://www.nkwiry.com))

## Activity 6 – Log on the Portal

The facilitator will walk you through a few of the apps. Try them out yourself

- Aldiko Reader
- PDF Reader
- Also try Adobe Reader
- Learn and Play French (L’N’P French)
- Merriam Webster Dictionary
- Maps
- Settings
- Sound Recorder, Camera (Video)

## Activity 7 – Critical Review of the apps

The facilitator will show you some slides to help you make connections with the curriculum and ways in which you will use the apps in your teaching and learning

- Watch the slideshow.
- Now work through the table below, and write notes in the columns provided. For instance any observations about **suitable age groups**, **curriculum topics** and **teaching ideas or methods**
- Some examples are given in the table below

In this exercise you are asked to try out the apps that TRR have provided on the tablets. These have been selected for their potential use in teaching and learning activities.

Curriculum content areas	Age Groups	Teaching ideas/methods
<ul style="list-style-type: none"> <li>• Maths</li> <li>• Science</li> <li>• Technology</li> <li>• Environment</li> <li>• Agriculture</li> <li>• English</li> <li>• French</li> <li>• Social science</li> <li>• History</li> <li>• Geography</li> <li>• Home economics</li> <li>• Industrial arts</li> <li>• Art and drama</li> <li>• Sports</li> <li>• Other</li> </ul>	<ul style="list-style-type: none"> <li>• Grade 1</li> <li>• Grade 2</li> <li>• etc.</li> <li>•</li> <li>• Grade 12</li> <li>• Adult learners</li> <li>• Teachers</li> </ul>	<ul style="list-style-type: none"> <li>• Students use as a reference</li> <li>• Students learning tool in lessons</li> <li>• Students use as visual aid</li> <li>• Learning by doing</li> <li>• Child centred teaching</li> <li>• Increasing motivational and engagement of students</li> <li>• Facilitating group work</li> <li>• Increasing girls educational performance, ie. with science</li> <li>• Community and adult learning</li> <li>• Collaboration tool</li> <li>• Literacy aid</li> <li>• Whole class activity</li> <li>• Used in an assignment</li> <li>• Flipped classroom</li> <li>• Self learning (individualised learning)</li> <li>• Lesson preparation</li> <li>• Teacher subject knowledge</li> <li>• Communicating with students, parents</li> <li>• Other (please describe)</li> </ul>

Name of app	Language	Summary	Curriculum and usage categories
Anatomy Guide	E	Diagrams of human anatomy with detailed captions, ext to speech - reads aloud in English	
Aldiko book reader	E	Ebook reader with free ebooks provided by TRR	
Amelioriez Votre Frencais	F	French interactive grammar quiz	
Virtual Anatomy Free	E	Anatomy diagrams, detailed with descriptions. Includes diagrams from famous historical text Gray's Anatomy	
Atlas	E	Simple globe, with limited zoom in (low resolution)	
Bac ES, Bac S	F	Apps that helps students studying French degrees to revise. Videos are online (youtube)	
Bank Finder	E	Finds banks. Requires Internet connection and uses Google Maps	
Bible	E	Text only, includes a search tool to find quotations and passages easily	
Calulus Quick Reference	E	Senior secondary or degree level reference ebook to calculus	
Cam Scanner	E	Capture documents with camera, edit and cloud store. Students can use to capture lecture slides (etc).	More: <a href="https://blog.camscanner.com/?p=1121">https://blog.camscanner.com/?p=1121</a>
Chimie Labo	F	Chemistry lab revision sheets for chemistry students	

Convert Pad	E	Converts just about any thing into different units	
Crisis Signal	E	Disaster app. Collects data on network coverage, but as these tablets only have wi-fi, it won't collect data on cellular networks.	
Maths Bac S	F	Crib sheet for fairly advanced high school/undergraduate maths. Not interactive	
French	F	Good simple speaking dictionary with synonyms, etymology, grammar, clipboard.	
french Test	E/F	Test for learning French, 3 levels, flashcards, shoutbox, tracking your progress	
French Translator	E/F	Talking translator, also has other languages	
French Verb	E/F	Simple translation of french verbs French to English, text only	
General Knowledge	E	General knowledge quiz - featuring India.	
Geo Quiz	E	Geography quiz. Simple quiz with multiple choice.	
Guess the Emoji	E	Simple basic literacy word game. Guess the compound words from the pictures.	
Kids ABC Trains Lite	E	Interactive game to learn upper and lower case letters. Basic literacy. American-cultured, dialect and icons.	
Kids Numbers Game Lite	E	Interactive game to learn basic numeracy	

Kids Shapes and Colours	E	Interactive game to learn shapes and colours.	
Learn n Play French	F	Interactive game learning French, alphabet and word flashcards	
English Grammar	E	Grammar reference book for senior grades and teachers	
Learn World History	E	World history quiz. Quite a European perspective	
Le Conjugueur	F	Tool to conjugate all French verbs. Senior grades, teachers, adult learners	
Math Helper		Maths reference, suitable for senior grades and teachers.	
Maths Solver	E	Solve simple maths equations. Good for checking calculations. Teachers and students.	
Math Helper Lite	E	Maths reference, suitable for senior grades and teachers.	
Maths Workout Game	E	Maths arithmetic game. In three levels. Good for any students and teachers	
Merriam Dictionary	E	English dictionary, very easy to use with definitions, speaks the words	
PDF Reader	E	PDF reader for PDF documents.	
Periodic Table	E	Periodic table, with basic quiz and link to useful Youtube videos (Internet needed)	

Phonics A-Z Free	E	Phonetics - simple app for very young ages or adult literacy learners. American language and icons.
Pocket Mathematics	E	Maths reference with diagrams suitable for senior grades, tertiary students, teachers
Pocket Physics	E	Physics reference with diagrams suitable for senior grades, tertiary students, teachers
Pyramots	F	Word game.
E-Robot	E	Allows you to automate strings of commands to control the tablet
Solar System Scope	E	Interactive graphics of the solar system
Word Search	E	Simple fun word game. Find the hidden words.

### Activity 8 – Adding and removing apps

1. Follow the facilitator as he demonstrates
2. Start Play Store
3. Search for “Sound Wave”
4. Install as in the demonstration
5. Try the app
6. Now remove it from Settings > Apps
7. Check the Memory available using Settings > Storage
8. Now try a few of the recommended apps in the table below.

Millions of apps are now available, mainly free, and can potentially be downloaded and installed on the tablets.

**NOTE: Apps cannot be installed if there is insufficient internal storage (memory).**

Dolphin Browsers is Required to view Flash animated resources (such as e-learning for kids, UNESCO ASEAN 2008 and Khan Academy videos). In the app settings, select “Flash always on”. On first viewing of a Flash object, the Adobe Flash plugin will be downloaded (Internet required)

Name	Summary	Your notes
Google Skymap	Point and see any celestial object.	
Wi-Fi Analyser	Check for Wi-Fi connections. CLICC administrators should know how to use this	
Skype	Internet telephony	
Dolphin browser	Needed to view Flash content in browser	
RealCalc	Scientific calculator. Much better than simple default calculator.	
Exchange Rates	A good simple and clear exchange rate app. Can be used in social science, convert dollars and vatu	
Earthquake Alert	Excellent earthquake advisory. Disaster risk and vulnerability reduction.	
ADManager Plus	Manager for network administrator	
Sugarizer	Limited version of Sugar (the operating system and educational activities evolved from the One Laptop Per Child project)	
ODK Collect	Forms app with excellent demonstration forms. Easy to create simple forms for educational activities such as student surveys	
Paint Joy	Paint app. Draw and colour in.	
Sound Oscilloscope	Displays sound, frequencies, and recording mode	
Sound meter	dB sound pressure level meter	
MX Player	Good video player with wide range of codecs/formats	



The Simplest Stopwatch	Timing app for students	
DGS Tides	Tide charts for nearest stations	
Distance Meter	Measures distance travelled	
Smart Tools	Different tools to measure things	
<b>Add your suggestions (and those of other participants) here</b>		