Love Apptually

Apps to support learning
Love Apptually: Apps to support learning

October 2012

Prepared by:

GoMake for

The Queensland VET Development Centre (QVDC)

EquityAndDiversity.QVDC@dete.qld.gov.au

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## Shortcuts to specific learning questions

**Learning**

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<td>Learning with and</td>
<td>ACSF 02</td>
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<td>from others</td>
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## Reading

<table>
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<th>ACSF area</th>
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## Writing

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<th>ACSF area</th>
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<td>Structure and cohesion – organisation and sequence of writing</td>
<td>ACSF 05</td>
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<td>Vocabulary, grammar, punctuation and spelling</td>
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<td>‘What can I use for learners struggling with the ‘mechanics’ of writing, like grammar and punctuation?’</td>
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</table>
Vocabulary, grammar, punctuation and spelling | ACSF 06 | ‘How can I help a learner struggling with spelling?’

Vocabulary, grammar, punctuation and spelling | ACSF 06 | ‘What can I use for learners to expand their writing vocabulary?’

### Oral Communication

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<th>ACSF area</th>
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</table>
| Listening for comprehension | ACSF 08 | ‘A learner wants an app to record notes and to learn how to take effective notes. What is a good note-taking app?’

### Numeracy

<table>
<thead>
<tr>
<th>ACSF area</th>
<th>ACSF indicator</th>
<th>Specific learning question</th>
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</thead>
</table>
| Problem solving processes including estimating and reflecting | ACSF 10 | ‘I have a learner struggling with the problem-solving process in maths. What can help improve their skills?’

| Mathematical methods and use of tools | ACSF 10 | ‘I’d like an app where my learners can look up mathematical formulas quickly and easily. Is there a maths formula reference guide app?’

| Mathematical knowledge and skills – number and algebra | ACSF 10 | ‘What if my learner has never solved mathematical problems with algebra before?’
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<tr>
<th>Mathematical knowledge and skills: measurement and geometry</th>
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<tr>
<td>Mathematical knowledge and skills: statistics and probability</td>
<td>ACSF 10</td>
<td>‘What app can I use to teach statistics to a learner who has limited understanding of how the formal components of statistics work?’</td>
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<td>‘How can I demonstrate written mathematical language to a learner for them to practice?’</td>
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Introduction

This resource has been designed to assist vocational education and training (VET) practitioners and learners to select applications (apps) for mobile devices that support VET teaching and learning. It highlights a number of mobile and tablet apps focussing on those that support:

- the development of foundation skills
- learners with a disability.

This resource supports the Queensland VET Inclusive Learning Framework (the Framework).

The Framework sets out the way forward for inclusive learning in Queensland VET. It was endorsed by the Honourable John-Paul Langbroek, Minister for Education, Training and Employment in August 2012. Developed by the Queensland VET Development Centre (QVDC), the Framework is a response to the National VET Equity Advisory Council (NVEAC) Equity Blueprint. It identifies three tiers of action in recognition of the systemic, organisational and individual responsibilities required to embed inclusive learning and achieve improved outcomes for learners who experience disadvantage. The Framework includes specific actions for registered training organisations (RTOs) and teacher/trainers to embed the development of Foundation Skills in training delivery. Underpinning this is the need to make information and learning resources accessible to all learners.

Foundation Skills

The term ‘Foundation Skills’ in this resource refers to the skills identified in the:

- Australian Core Skills Framework (ACSF)
- Core Skills for Work (CSW) previously known as employability skills.

Foundation Skills are essential for effective participation in society. They underpin every VET competency standard, at every qualification level and contribute to work performance.
Skills Australia (2010) identified that improvements in the level of Foundation Skills are essential to increased workforce participation and social inclusion. As a result, there is a significant national focus on the development of these skills and associated support strategies.

**Mobile devices and their applications (apps)**

Mobile devices and their apps are a support strategy that can assist in the development of Foundation Skills and enhance accessibility for learners. They are also becoming an increasing part of our everyday life.

As such, the VET sector has a key responsibility in the use of mobile devices. This includes developing learner skills to use the technology, and leveraging the opportunities technology creates to expand the reach and accessibility of training, particularly to those who may not have participated in the past.

Mobile devices and their apps are a conduit for inclusive learning. They afford new and exciting methods for experiencing learning, and for experiencing the world around us. Within this space, teachers and learners can explore and engage, and potentially accomplish goals that were previously out of reach.

**Devices used in the development of this resource**

Due to the multitude of mobile devices available on the market, only a small number were selected in the development of this resource. These were:

- iPad (original) — iOS 5
- iPad (3rd-gen) — iOS 5
- iPhone 4S — iOS 5
- HTC One X — Android 4.0 (Ice Cream Sandwich)
- LG Optimus Black (P790) - Android 2.3 (Gingerbread).
Structure of this resource

This resource has been structured primarily on the ACSF. A list of apps appears under each core skill and notes how it could be used in the development of the skill. It also includes reference to the CSW where applicable.

The section on apps to enhance accessibility provides relevant information about the operating systems of mobile devices followed by apps specifically designed for accessibility.
Apps for the development of foundation skills
Foundation Skill - Learning

What apps can I use?
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<th>Planning and organising self</th>
<th>‘I have a learner who needs help with planning and organising.’</th>
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<td>ACSF 01</td>
<td>App: Wunderlist</td>
</tr>
<tr>
<td>CSW 3a</td>
<td></td>
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</table>

**Description:**

Wunderlist is an easy-to-use task management app. Learners can identify and organise tasks by sequencing, assigning dates and priority, adding notes and supporting resources. Users can also collaborate with shared task lists within Wunderlist.

**Developer Website:**

[http://www.6wunderkinder.com/wunderlist/](http://www.6wunderkinder.com/wunderlist/)
iOS App Store Link:

Google Play Link:

Size:
- iOS – 14.7 MB
- Android – varies with device.

Foundation Skills:
This app is useful for setting activities that address the focus areas of Planning and organising (ACSF 01) and Plan and organise (CSW 3a). Here are some activities you can use the Wunderlist app for in order to engage a number of the performance features:

- identify and list the first step of a new task with familiar features
- identify and list support resources, (e.g. supervisor, shop assistant or DVD) within a new task
- identify the main steps required to complete a familiar task
- draw on prior knowledge to identify and list the nature and scope of new tasks in routine situations, with some awareness of the need to allow for contextual differences
• develop a sequenced plan for a specific task with:
  - prioritised steps
  - some attention given to timelines

• pose explicit questions to help focus planning of new tasks (e.g. ‘What do I need to achieve? Why is it important? How does it fit with what I already know? What questions do I have?’)

• create a plan with sequenced, prioritised steps with concrete timeframes

• draw on prior knowledge to assess, and where required renegotiate, the nature and scope of what has to be done

• the use of Wunderlist can address the performance feature of selecting from a range of specialised tools, many of which are technology based (e.g. project management software)

• the use of Wunderlist fulfils the performance feature of using ICT-based tools (e.g. a mobile/tablet app) with assistance

• ultimately, the inherent limitations of Wunderlist (being a relatively simple task manager) can sequence into an activity on how a more complex piece of software (like a project management app e.g. Microsoft Project) differs from simple task management.
Other similar apps:

**Todo** (iOS) — $5.49

‘Appigo Todo is the most connected iOS app and makes task management simple and fun.’

**Zero** (iOS) — Free

‘The simplest, fastest and most elegant to-do list for the iPhone or iPod Touch, and it even syncs to iCal. In just a single screen, Zero lets you add tasks right onto the top of your list, and manage all of your existing tasks.’

**The Hit List** (iOS) — $10.49

‘Your life is complicated enough as it is. The tool to manage your life shouldn't be. The Hit List keeps things simple by not forcing you to learn a system.’
‘I have a learner who needs help organising their study schedule, following up on homework, and being reminded of what’s coming next.’

App: iStudiez Pro

Description:

iStudiez Pro is an app that helps keep track of classroom and study activities. Learners can enter their class timetable and individual study schedule, follow up with readings and assignments (pending or completed), summarise activities and receive reminders of what is coming up. Learners can also monitor progress through their course with grade tracking.

Developer Website:

http://istudentpro.com/
iOS App Store Link:

Size: 24.3 MB

Foundation Skills:
This app is useful for setting activities that address the focus areas of Planning and organising (ACSF 01) and Plan and organise (CSW 3a). Here are some activities you can use the iStudiez Pro app for in order to engage a number of the performance features:

- identify a limited range of support resources, (e.g. supervisor, shop assistant or DVD)
- identify some appropriate tools from the classroom/workplace for use in an upcoming project (e.g. scissors and cutting tools for a hairdresser, or stationery for a writing task) and list them in iStudiez Pro
- access a range of support resources
- establish a suitable place for independent study
- attend class/training sessions regularly and inform others if unable to attend
- take required materials to training/class
- save notes in a labelled folder
- keep a list of frequently used words
• use a diary or a planner to record training commitments, term dates and holidays

• the use of iStudiez Pro fulfils the performance feature of using ICT-based tools (e.g. a mobile/tablet app) with assistance.

Other similar apps:

**Pocket Informant HD** (iOS) — $13.99

‘Pocket Informant is a fully integrated Calendar, Task, Contacts and Notes solution for your iPad that lets you focus on everything you do in a day – not just your Tasks list.’

**Complete Class Organiser** (iOS) — $5.49

‘The one app to organise all your classes! Take notes while recording lectures and the audio syncs to the text, manage homework and exam dates, store and calculate grades, and organise info for every class. This app differs from other note-taking apps in that it's designed specifically for learners to help them manage all classes throughout their school career.’
‘I have a learner who wants help to organise their notes and information. What can I use?’

App: Evernote

Description:

Evernote is an app which allows learners to save and collate notes from a variety of sources to access later. It can save a number of different formats of notes, including text, images, video and audio, GPS locations and more. Notes can also be sorted in different notebooks for organisation, and labelled with different keywords for simple sorting and reference.

Developer Website:

http://evernote.com/
iOS App Store Link:

Google Play Link:

Size:
- iOS – 19.6 MB
- Android – varies with device.

Foundation Skills:

This app is useful for setting activities that address the focus area of **Locating, evaluating and organising information** (ACSF 02) and **Plan and organise** (CSW 3a). Here are some activities you can use the Evernote app for in order to engage a number of the performance features:

- identify the general area/topic on which information is required
- begin to use information seeking strategies with assistance, (e.g. enter a key word in Evernote for searching)
- use simple strategies to organise and help remember information, (e.g. build a word bank)
- use a range of strategies to assess the potential of a text, (e.g. scan/photograph the cover, title or illustrations)
- use of Evernote addresses the performance feature of ordering, classifying and storing familiar reference materials for easy retrieval, (e.g. naming and dating, or version control)

- use of Evernote addresses the performance feature of the use of ICT applications to collect, analyse, store, organise and facilitate ongoing access to information.

**Other similar apps:**

**Pocket** (iOS) — Free

‘When you find something on the web that you want to view later, put it in Pocket. It automatically syncs to your phone, tablet, or computer so you can view it any time, even without an internet connection.’

**Popplet lite** (iOS) — Free (Pro version available for $4.99)

‘Great for work. Great for school. Popplet is a platform for your ideas. Popplet's super simple interface allows you to move at the speed of your thoughts. With Popplet you can capture your ideas, sort them visually, and collaborate with others in real time. Quickly and easily!’
<table>
<thead>
<tr>
<th>Planning and organising self</th>
<th>‘I’d like to help a learner improve their analytical skills for organising information by using a mind-mapping tool.’</th>
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<tr>
<td>ACSF 01</td>
<td>App: Idea Sketch</td>
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<tr>
<td>Locating, evaluating and organising information</td>
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<tr>
<td>ACSF 02</td>
<td><strong>Description:</strong></td>
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<tr>
<td>CSW 3a</td>
<td>Idea Sketch is an app that helps learners plan and map organisational information. Learners can draw diagrams, mind-maps and flow charts and convert them to a text outline. Idea Sketch is very flexible, and works well in conjunction with other apps. It allows learners to import information from other apps, and also export mind maps to PDF.</td>
</tr>
<tr>
<td></td>
<td><strong>Developer Website:</strong></td>
</tr>
<tr>
<td></td>
<td><a href="http://www.nosleep.net/">http://www.nosleep.net/</a></td>
</tr>
</tbody>
</table>
Foundation Skills:

This app is useful for setting activities that address the focus areas of Planning and organising (ACSF 01), Locating, evaluating and organising information (ACSF 02) and Plan and organise (CSW 3a). Firstly, here are some activities you can use the Idea Sketch app for in order to engage a number of the performance features within Planning and organising (ACSF 01) and Plan and organise (CSW 3a):

- identify and list the first step of a new task with familiar features
- identify and list support resources, (e.g. supervisor, shop assistant or DVD) within a new task
- identify the main steps required to complete a familiar task
- use of Idea Sketch addresses the performance feature of using ICT based tools (e.g. a mobile/tablet app) with assistance
- draw on prior knowledge to identify and list the nature and scope of new tasks in routine situations, with some awareness of the need to allow for contextual differences
- develop a sequenced plan for a specific task with:
  - prioritised steps
  - timelines.
Here are some activities you can use the **Idea Sketch** app for to engage a number of the performance features within **Locating, evaluating and organising information** (ACSF 02):

- use simple strategies to organise and help remember information, (e.g. build a word bank)
- use simple organising methods to manage reference material, (e.g. label a file box or a Word folder)
- use some personal and/or workplace designed systems (like Idea Sketch) for ordering, classifying and storing familiar reference materials for easy retrieval, e.g. naming and dating, or version control
- use of Idea Sketch addresses the performance feature of using ICT applications to collect, analyse, store, organise and facilitate ongoing access to information.

**Other similar apps:**

**MindNode** (iOS) — $9.99

'MindNode is a very easy and intuitive application for collecting, organising and outlining your thoughts and ideas as mind maps.'

**Headspace** (iOS) — $3.99

'Headspace allows you to create items and groups of items on a floating plane in three-dimensional space. The hierarchy of items and their various sub-items make for a beautiful display of information as they recede into the distance.'

**iThoughts HD** (iOS) — $10.49

'iThoughts HD brings mind mapping to the iPad. Based on the award winning iThoughts for iPhone, iThoughts HD has been designed specifically for the iPad.'
‘What collaboration-style apps are available for learners to work together?’

App: Corkulous

Description:
Corkulous is a collaboration tool that enables learners to work together on a single virtual cork board. Learners can attach notes, photos, labels, contacts, tasks and more to the board, and then email or export them. Corkulous offers further collaboration by allowing invitations to new users to view a board, and contribute to it on their own device.

Developer Website:
http://www.appigo.com/corkulous
iOS App Store Link:


Size: 19.7 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Learning with and from others** (ACSF 02) and **Connect and work with others** (CSW 2b). Here are some activities you can use the **Corkulous** app for in order to engage a number of the performance features:

- follow basic social rules for interacting with others, e.g. take turn in speaking, listen to others or share resources with a partner
- take some steps to identify appropriate support (e.g. seek assistance from a trusted person)
- fulfil the basic roles of a group member (e.g. contribute to discussion or accepts allocated tasks)
- identify own and others’ roles in a group or team and make an active contribution
- participate in online collaborations where appropriate (e.g. discussion boards)
- consider and respond to some advice and feedback on performance from a trusted person
- contribute to effective group and team interaction by clarifying tasks, recognising each member’s strengths, negotiating roles and assisting with conflict resolution
• participate in professional/ technical or community networks where appropriate

• lead work groups/teams, facilitating the achievement of outcomes through highly developed interpersonal, planning and time management skills and team leadership

• understand there are different ways of interpreting information and constructing knowledge within disciplines and professions, and across cultures.

Other similar apps:

iBrainstorm (iOS) — Free

‘Capturing and sharing your inner most creative genius has never been easier. Introducing the first multi-device collaboration tool from Universal Mind. From iPhone to iPad with just a flick of the finger, iBrainstorm has set the bar and has redefined the very nature of collaboration.’
‘I have a learner who needs to understand new concepts independently, and manage the teaching and learning process for themselves.’

App: Khan Academy

Description:

Khan Academy allows learners to develop mastery over new concepts, through applied short instructional videos, followed by interactive examples. Learners can work through modules at their own pace, ensuring they build a thorough and applied understanding of concepts. Khan Academy contains a large library of high-quality short videos on a variety of subjects, including maths, biology, chemistry and humanities subjects. With the Khan Academy app learners can download videos for offline use, navigate through subtitles and track progress. The app can be used stand-alone or in conjunction with the website.

Developer Website:

http://www.khanacademy.org/
iOS App Store Link:

Google Play Link:
https://play.google.com/store/apps/details?id=home.widgetlabs&hl=en (unofficial app)

Size:
- iOS – 1.9 MB
- Android – 99k.

Foundation Skills:
This app is useful for setting activities that address the focus area of Learning with and from others (ACSF 02), Connect and work with others (CSW 2b) and Recognise and utilise diverse perspectives (CSW 2c). Here are some activities you can use the Khan Academy app for in order to engage a number of the performance features:

- ask questions of a teacher/trainer, mentor or expert in the field
- participate in online collaborations where appropriate (e.g. discussion boards)
- consider and respond to some advice and feedback on performance from a trusted person
- participate in professional/technical or community networks where appropriate
recognise that individuals construct knowledge differently, building on past experience and influenced by personal and cultural values, beliefs and assumptions

seek advice, and reflects on and responds to feedback from trusted sources

understand there are different ways of interpreting information and constructing knowledge within disciplines and professions, and across cultures

actively seek and act on detailed feedback from a number of sources, recognising that both positive and negative feedback is potentially a rich source of learning.

Other similar apps:

TED (iOS) — Free

‘TED's official app presents talks from some of the world's most fascinating people: education radicals, tech geniuses, medical mavericks, business gurus and music legends.’

iTunes U (iOS) — Free

‘The iTunes U app gives you access to complete courses from leading universities and other schools — plus the world’s largest digital catalogue of free education content — right on your iPad, iPhone, or iPod touch.’

Wikipanion (iOS) — Free

‘Accessing Wikipedia has never been faster and easier than with Wikipanion, designed for easy, search, navigation and display of Wikipedia entries. Streamline your browsing with history grouped by visit date, and bookmarking that not only bookmarks individual entries, but individual sections within an entry.’
Google Search (iOS) — Free

‘Search the web faster and easier with the latest Search app from Google. Get exclusive search features only available in this app. Now, newly redesigned for the iPhone.’

How Stuff Works (iOS) — Free

‘Outsmart yourself with the newest release of the award-winning HowStuffWorks iPad App. Access all of the most popular HSW articles such as the thought-provoking ‘10 Inventions that Changed the World’ to the practical ‘10 iPad Apps for Personal Productivity.’ Get tons of videos and podcasts, plus endless content from popular HowStuffWorks’ sections like cars, electronics, finance and much more.’
Foundation Skill – Reading
What apps can I use?
**Text navigation and Comprehension strategies**

**ACSF 04**

<table>
<thead>
<tr>
<th>‘What can I recommend for a learner to improve reading comprehension and inferential thinking?’</th>
</tr>
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<tbody>
<tr>
<td>App: MiniMod Reading for Inferences</td>
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</table>

**Description:**

MiniMod Reading for Inferences helps learners to build comprehension skills. Inferential reasoning involves drawing conclusions based on evidence and prior knowledge, rather than explicitly stated information. This app provides readings about the Inca, Mayan and Aztec cultures, followed by comprehension questions. There is a practice and ‘game’ mode, and three levels of difficulty in total, allowing learners to develop their skill level.

**Developer Website:**

http://eskillslearning.net/
iOS App Store Link:


Size: 9.0 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Text navigation and comprehension strategies** (ACSF 04). Here are some activities you can use the **MiniMod Reading for Inferences** app for in order to engage a number of the performance features:

- locate one or two pieces of information from a simple text
- identify information in a simple diagram, table, map or plan
- recognise that texts have different structures and identifies some distinguishing features of those with personal relevance, e.g. the sequential nature of instructions
- recognise some features of diagrammatic texts, e.g. grid references, dot points or arrows
- begin to skim and scan familiar texts, using pictures and graphics to help locate specific information.
‘What can I recommend for a learner to improve their skills in advanced reading comprehension and inferential thinking?’

App: Wikipanion

Description:

Wikipanion helps learners to develop recognition, comprehension and inferential thinking skills by arranging information according to predictable text structures and features. The app allows learners to browse Wikipedia in an interface that is optimised for tablet and mobile device screens. This enables them to skim and scan information to identify areas of interest, as well as read closely to identify explicit and implicit information and ideas. Wikipanion also has smart features, like table of contents awareness, bookmarking features, history and media playback.

Developer Website:

http://www.wikipanion.com/
iOS App Store Link:


Size: 3.2 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of Text navigation and Comprehension strategies (ACSF 04). Here are some activities you can use the Wikipanion app for in order to engage a number of the performance features:

- begin to use hyperlinks in online texts
- recognise the structures and distinguishing features of a range of familiar text types
- begin to use knowledge of text structures and features (e.g. headings, paragraphing or punctuation) as an aid to skimming and scanning
- select an appropriate reading approach according to text structure and purpose (e.g. skims and scans to identify areas of interest, reads closely to identify explicit and implicit information and ideas, understands that reports do not necessarily need to be read sequentially and uses contents page and headings to find relevant sections)
- recognise and respond to some conventions of complex texts, e.g. section numbering, use of footnotes or accepted styles of referencing
- recognise the distinguishing structures, layout, features and conventions of a broad range of complex text types and understand how to use these as an aid to locating information, developing understanding and focusing reading effort.
Other similar apps:

**Practice 4 GED Reading** (iOS) — $2.99

‘Steck-Vaughn has been preparing learners for the GED® test for over 20 years. Learn and practice with proven resources now designed for mobile learning!’
Syntax and language patterns

ACSF 04

‘What is available for a learner to improve language skills, syntax, or patterns?’

App: Conversation English HD

Description:

Conversation English HD helps learners to identify the structure, syntax and language patterns of English conversation. Particularly useful for ESL learners, the app also helps with difficult-to-understand concepts like expressions and idioms, and refines skills in conversation listening, conversation reading, comprehension, vocabulary and sentence completion.

Developer Website:

http://redriverpress.com/apps.php
iOS App Store Link:


Size: 18.5 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Syntax and language patterns** (ACSF 04). Here are some activities you can use the **Conversation English HD** app for in order to engage some performance features:

- begin to use surrounding words in a simple sentence to help identify an unknown word, e.g. recognises the need for a verb
- use knowledge of familiar phrases to predict the next word (e.g. Once upon a … )
- recognise some basic punctuation and understands its use in meaning-making, e.g. a full stop
- use understanding of simple sentence structure and word function to predict the meaning of some unknown words and phrases in familiar contexts
- predict the meaning of unknown words by considering surrounding words, phrases and sentences and cross-checks that this makes syntactic and semantic sense
- recognise introductory phrases which indicate that an opinion or a fact is being offered
- identify some signalling devices, including those that refer to words or phrases in previous clauses or sentences (e.g. although, when, if, while, the second point is)
• recognise how language features can be used to alert a reader to a shift in focus or meaning (e.g. a change of tense)

• respond to transitional words and phrases that signal important information or a shift in focus

• understand how linking devices are used to demonstrate conceptual connections and/or causal relationships.

Other similar apps:

**Conversation Builder** (iOS) — $10.49

‘ConversationBuilder™ (Pat. Pend.) is designed to help learn how to have multi-exchange conversations with their peers in a variety of social settings. The auditory pattern of conversation is presented in a visual format to help learners recognise and master the flow of conversation. Learners will learn when it is appropriate to introduce themselves, ask questions, make observations and change the subject of the conversation.’

**Power Vocab** (Android) — Free

‘Play PowerVocab to build a strong vocabulary of SAT GRE GMAT words using a game! Play PowerVocab (TM) which is free and one of the most popular word games to build a strong vocabulary.’

**Evernote Peek** (iOS) — Free

‘Evernote Peek is a learning app designed for the iPad 2 Smart Cover. No Smart Cover? No problem! The new Virtual Cover lets any iPad get in on the fun. Studying with an iPad has never been more natural. Simply peek under the cover to prepare for a quiz, practice a language or strengthen your memory.’
‘What can I recommend to learners to expand their vocabulary?’

App: Vocabology

Description:
Vocabology gives learners a new word of the day, every day. It comes with the definition of the word (from multiple sources), examples of the word in use and audio pronunciation. Vocabology supports multiple languages including English, Spanish, German, Italian and French. It also gives a quiz section for learners to test their knowledge and progress.

Developer Website:
http://www.thatwith.me/vocabulary/index
iOS App Store Link:


Size: 8.4 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Vocabulary** (ACSF 04). Here are some activities you can use the **Vocabology** app for in order to engage some performance features:

- use simple strategies to assist with word identification and extend vocabulary, e.g. a pictorial or bilingual dictionary, or a personal word list
- has an expanding bank of words associated with personally relevant contexts, incorporating some compound words, abbreviations and acronyms
- use a dictionary or online resource to check word meanings
- routinely use dictionaries and other references to determine the meaning of unknown words
- understand an increasing number of uncommon words, including words with non-literal meanings and abstractions
- understand specialised vocabulary and acronyms relevant to own fields of expertise and interest
- draw on support resources as required to clarify or confirm word meanings, e.g. a thesaurus or Wikipedia
- use a range of support resources to extend understanding, and to investigate, research and reflect on the use of specific words and phrases.
Other similar apps:

**Word Wit** (iOS) — $0.99

'Word Wit makes it fun and easy to learn — and remember — the difference between life's most vexing word choices. The goal: Never mix up those confusing words again! And when it comes to your writing, you'll have new confidence.'

**Words Words Words** (Android) – Free

'Words, words, words are what you need for effective communication. Start right from the beginning and master them all! The 2000+ words become more difficult with each passing quiz. Audio is included to help with pronunciation. Mix things up with the unscramble game!'

**The Opposites** (iOS) — $2.99

‘An exciting word game which challenges children (ages 7+) to match up pairs of opposing words in increasingly difficult levels. ‘Opposites’ starts with easy word pairs, like 'up-down', but as players level up they are challenged with more complex and abstract pairings, until they are dealing with rare descriptive and technical words, from biology, economics, politics, medicine, poetry and classical Greek prefixes!

**Dictionary & Thesaurus for iPad** OS) — Free

‘Top-rated app with trusted reference content from Dictionary.com and Thesaurus.com. WORKS OFFLINE - no Internet connection needed when searching words.’

**Hangman Pro HD** (iOS) — $1.99

‘Think you have a good vocabulary? Take on your iPad or a friend in this chalkboard classic and find out how good your vocabulary really is.’
Foundation Skill – Writing

What apps can I use?
‘What can I use for learners who need help with simple sentence structure?’

App: SentenceBuilderTeen

**Description:**

SentenceBuilderTeen helps learners organise and identify sentence components. The app shows an interface with images and sentence fragments which learners must align to form a grammatically correct sentence. The app’s main focus is the connector words which comprise a large part of the English language. SentenceBuilderTeen features over 100 images to build sentences around, as well as statistics tracking to measure progress.

**Developer Website:**

iOS App Store Link:


Size: 38.3 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Structure and cohesion** (ACSF 05). Here are some activities you can use the **SentenceBuilderTeen** app for in order to engage some performance features:

- write short texts with simple structures
- demonstrate a very limited understanding of sequence
- recognise that texts have a structure, e.g. beginning, middle and end
- begin to sequence writing with some attention to organising principles of time and importance
- sequence writing to produce cohesive text
- use layout consistent with text type
- use clear, logical organisational structures in writing.
‘What can I use for learners who struggle putting together cohesive passages of writing?’

App: Essay Writing Guide

Description:
Essay Writing Guide helps learners write more cohesively by understanding the structural elements of essay writing. The app is a guide to correct form in essay writing, which shows how content, style and organisation fit together for effective writing.

Developer Website:
http://www.gatsbyslight.com/apps.php
iOS App Store Link:

Size: 1.5 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of *Structure and cohesion* (ACSF 05). Here are some activities you can use the *Essay Writing Guide* app for in order to engage some performance features:

- recognise that texts have a structure, e.g. beginning, middle and end
- begin to sequence writing with some attention to organising principles of time and importance
- sequence writing to produce cohesive text
- interrelate ideas and information and some support material when writing about familiar topics
- use layout consistent with text type
- display logical organisational structure in writing through the use of coherently linked paragraphs
- use some references
- structure writing to move from introduction through several connected ideas/evidence/points of view to a summary/recommendation where this is appropriate to the context
• use clear, logical organisational structures in writing
• use and experiments with a broad range of structures and features
• understand and adhere to organisational conventions, e.g. footnotes and references
• use formatting appropriate to text, e.g. heading weights and styles.

Other similar apps:

Pages (iOS) — $10.49

‘Pages is the most beautiful word processor you’ve ever seen on a mobile device. This powerful app has been exclusively designed for the iPad, iPhone, and iPod touch. Create, edit, and view documents wherever you are.’

Writer (Android) — Free

‘Writer is a writing application without the fuss and distraction of a traditional word processor. It’s perfect for everything from taking notes to writing a novel on your phone or tablet.’

Comic Life (iOS) — $5.49

‘Comic Life, the award winning photo comic creation software, has been redesigned for the iPad. It’s the funnest, easiest and fastest way ever to create photo comics on a mobile device.’
‘What can I use to improve a learner’s proofreading and review skills?’

App: GoodReader

Description:

GoodReader displays virtually any document on an iPad, iPhone or iPod touch, and allows for mark-up for review, with textboxes, sticky notes, lines, arrows and drawings as an additional layer on top of the original document. This enables learners to review and proofread documents easily, and incorporate peer or teacher feedback into self-review.

Developer Website:

http://www.goodreader.net/goodreader.html
iOS App Store Link:

Size: 16.0 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of Plan, draft, proof and review (ACSF 05). Here are some activities you can use the GoodReader app for in order to engage some performance features:

- begin to check writing by re-reading and make some corrections with guidance, e.g. capital letters and full stops
- begin to review writing, incorporating teacher/mentor comments into the drafting process
- use the process of planning, drafting and proofreading
- self corrects own writing to check for consistency and accuracy
- use a variety of strategies for planning, drafting, reviewing and proofreading own writing (e.g. plans according to purpose, uses drafting techniques or checks with a mentor/peer)
- use the drafting and revision process to extend and clarify thinking.

Other similar apps:

Proofreading (iOS) — Free

‘A simple app that gives examples of spelling mistakes, grammatical mistakes and apostrophe use learners will often have to identify and correct.’
‘What can I use for learners struggling with the ‘mechanics’ of writing, like grammar and punctuation?’

App: Grammar Up

**Description:**
Grammar Up gives learners over 1800 multiple choice questions across 20 grammar categories to practice and improve their use of grammar. Categories include word choice, conditionals, conjunctions, word families, word forms and more. Grammar Up can help strengthen word selection and build vocabulary, and gives progress statistics to track improvement.

**Developer Website:**
http://www.eknathkadam.com/myapps/
iOS App Store Link:

Size: 12.0 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Vocabulary, grammar, punctuation and spelling** (ACSF 06). Here are some activities you can use the **Grammar Up** app for in order to engage some performance features:

**Grammar:**

- use basic structures and limited verb tenses
- use action words and simple verb tenses in sentences of one or two clauses
- use adjectives, pronouns and prepositions to describe people, places, things and events
- use simple cohesive devices such as and, but, then
- use time/location markers such as first, then, yesterday, in, at
- use introductory phrases which indicate that an opinion, or a fact, is being offered
- use some complex and compound sentences
- use dependent clauses introduced by words such as although, when, if, while
- use a range of tenses
- use grammatical structures and vocabulary appropriate to register
- use structurally complex sentences
- use grammatical structures accurately and effectively.

**Punctuation:**

- use basic punctuation, e.g. capital letters, full stops and commas
- use punctuation as an aid to understanding, e.g. capitalisation, full stops, commas, apostrophes, question marks and quotation marks
- use punctuation accurately and effectively to convey a range of meanings, e.g. emotions or intentions
- uses all features of punctuation, font and layout effectively, e.g. semi-colons, brackets and italics
- avoids overuse and/or misuse of punctuation.
‘How can I help a learner struggling with spelling?’

App: Spelling Tutor

Description:

Spelling Tutor allows learners to create customised spelling lists for revision. The app encourages multi-sensory learning - learners can write a word, then say it aloud, and the app will provide audio reminders as they spell and write it out again. Spelling Tutor also records learners’ progress to track milestones and improvements.

Developer Website:

http://www.machead.com/apps/spelling
iOS App Store Link:


Size: 5.2 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Vocabulary, grammar, punctuation and spelling** (ACSF 06). Here are some activities you can use the Spelling Tutor app for in order to engage some performance features:

**Spelling:**

- approximate spelling, with inconsistencies and variations apparent
- attempt spelling by using familiar letter patterns, including phonic letter patterns, common stems, suffixes and prefixes
- use a spellchecker with support
- show some variation in spelling that does not interfere with the overall meaning
- use a spell checker with increasing understanding, independence and awareness of its limitations
- spell with reasonable accuracy
- attempt to spell unfamiliar words, using a range of strategies, including phonic and visual letter patterns, syllabification and word origin
• use a range of spelling strategies, e.g. understanding of word usage, visual and phonic patterns, or word derivations and meanings

• accurately spell frequently used words, including relevant technical terms and specialised vocabulary

• spell with a high degree of accuracy using the patterns and rules that are characteristic of English spelling, or by taking measures to check accuracy and make corrections.
‘What can I use for learners to expand their writing vocabulary?’

App: Vocabology

Description:
Vocabology gives learners a new word of the day, every day. It comes with the definition of the word (from multiple sources), examples of the word in use and audio pronunciation. Vocabology supports multiple languages including English, Spanish, German, Italian and French. It also gives a quiz section for learners to test their knowledge and progress.

Developer Website:
http://www.thatwith.me/vocabulary/index
iOS App Store Link:


Size: 8.4 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Vocabulary, grammar, punctuation and spelling** (ACSF 06). Here are some activities you can use the **Vocabology** app for in order to engage some performance features:

**Vocabulary:**

- use a small bank of individual words and phrases or word lists related to giving personal details or meeting survival needs. May be memorised or formulaic
- extend key vocabulary to include personal details of self, family and relevant others, most aspects of everyday life and other vocabulary of personal significance
- draw on a vocabulary which is sufficiently broad so that a relevant word is usually available
- use an English dictionary or thesaurus (hard copy or online) to extend own vocabulary bank.
Other similar apps:

**Cambridge: English Grammar in Use Activities** (iOS) — $10.49

‘The Ultimate Grammar Study Tool. Dive into a massive library of fun grammar activities written specially for intermediate learners of English. Imagery, sound and extra support across all key topics make studying simple and enjoyable. It’s never been so easy to learn grammar!’

**Vocabulary Builder** (Android) — Free

‘Sleek, effective, and fun way to build your vocabulary. Get quizzed on thousands of English vocabulary words commonly found on tests such as the GRE and SAT.’

**Proofreading** (iOS) — Free

‘A simple app that gives examples of spelling mistakes, grammatical mistakes and apostrophe use learners will often have to identify and correct.’
Foundation Skills – Oral Communication

What apps can I use?
‘A learner wants an app to record notes and to learn how to take effective notes. What is a good note-taking app?’

App: Notability

Description:
Notability collates handwriting, typed text, audio recording and annotation, helping learners to record, organise and access notes. The app allows simultaneous speaking and writing, so learners can revisit notes and link text. Notability allows learners to zoom in to take precise notes, and to annotate PDF files and style text with advanced word-processing features. Learners can also sync all notes to the cloud for easy storage and back up access.

Developer Website:
http://www.gingerlabs.com/

iOS App Store Link:

Size: 33.0 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of Listening, particularly audience and purpose and comprehension (ACSF 08) and Communicate for work (CSW 2a). Here are some activities you can use the Notability app for in order to engage some performance features:

- ask simple questions and makes statements with reasonable effectiveness where this involves short utterances and highly familiar content
- respond to a request for clarification or repetition and makes statements with reasonable effectiveness where this involves short utterances and highly familiar content
- identify specific information in spoken texts relating to items, people and/or activities in the immediate environment
- record an exchange with Notability. Replay exchange, and begin to provide key information relevant to an exchange
- record an exchange with Notability. Recognise that words and grammatical choices may vary to meet the requirements of the audience and purpose
- begin to demonstrate a recognition of the differences between formal and informal registers
- recognise the way structure and register may change according to the purpose of the oral text
- reflect on the underlying meaning of the communication and responds appropriately.

**Other similar apps:**

- **Mental Note for iPad** (iOS) — $4.49
  
  ‘Turn your iPad into a digital notepad. Combine pictures, voice recordings, drawings and text - all on the same page, in any order you choose.’

- **GenialWriting** (Android) — Free
  
  ‘Sharing handwriting memo with friends via email, MMS and Facebook’

- **Explain Everything** (iOS) — $2.99
  
  ‘Explain Everything is an easy-to-use design tool that lets you annotate, animate, and narrate explanations and presentations.’
Foundation Skills – Numeracy

What apps can I use?
‘I have a learner struggling with the problem-solving process in maths. What can help improve their skills?’

App: Elevated Math

Description:

Elevated Math provides learners with tutoring, via graphical and animated lessons, and an interactive whiteboard on maths topics including measurement, estimation, large digit addition, geometry, data analysis and algebra. It comes with two lessons for free and one video. The remaining lessons and videos are in-app purchases for around $1.99 each (bundled prices also available).

Developer Website:

http://elevatedmath.com/
iOS App Store Link:


Size: 3.2 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of Problem solving processes including estimating and reflecting (ACSF 10) and Identify and solve problems (CSW 3c). Here are some activities you can use the Elevated Math app for in order to engage some performance features:

- draw on a combination of hands-on, in-context materials, personal experience, mathematical and other prior knowledge to:
  - select appropriate methods of solution from a limited range of mathematical processes
  - use developing estimation, and other assessment skills, to check and reflect on the outcome and its appropriateness to the context and task
- draw on prior mathematical knowledge and experience, diagrammatic, symbolic and other mathematical processes to:
  - represent the mathematical information in a form that is personally useful as an aid to problem solving (e.g. table, summary or sketch)
  - select appropriate strategies from an expanding range of mathematical processes
  - use estimation and other assessment skills to check the outcomes and decide on the appropriate accuracy for the outcome
  - reflect on and evaluate the mathematics used and the outcomes obtained relative to personal, contextual and real-world implications.
Other similar apps:

Math (iOS) — Free

‘Over 3 years of math instruction included. Every lesson features video examples, interactive practice, multiple-choice self-tests, a worksheet of extra problems, and more!’

Math Workout (Android) — Free

‘Test your mental math and exercise your brain once a day. With MILLIONS of worldwide downloads, we think your brain will love Math Workout.’

Algebra Problem Solving Skills (iOS) — $3.99

‘This algebra problem solving skills course teaches basic techniques to solve common word problem solving strategies and test taking skills.’
Mathematical methods and use of tools

ACSF 10

‘I’d like an app where my learners can look up mathematical formulas quickly and easily. Is there a maths formula reference guide app?’

App: iFormulas

Description:

iFormulas is a one-stop shop for maths formulae, making it effortless to find and apply the correct formula. Categories include: Algebra, Calculus, Chemistry, Geometry, Electrical, Trigonometry and Physics.

Developer Website:

http://www.bwears.com/iformulas.html
iOS App Store Link:


Size: 7.2 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Mathematical methods and use of tools** (ACSF 10). Here are some activities you can use the iFormulas app for in order to engage some performance features:

- identify and use appropriate tools at a basic level in a limited range of applications (e.g. uses a ruler to decide whether an item is longer than 10 cm or uses a simple calculator to subtract two numbers)
- use personal and informal ‘in-the-head’ methods and pen and paper methods to calculate or uses calculator/technological processes and tools to calculate
- use a blend of personal ‘in-the-head’ methods and formal pen and paper methods to calculate and uses calculator/technological processes and tools to undertake the problem solving process
- use of iFormulas addresses the performance feature of choosing an appropriate technological processes, (e.g. looking up the appropriate formula for an exercise).

Other similar apps:

**Numbers** (iOS) — $10.49

‘Numbers is the most innovative spreadsheet app ever designed for a mobile device. Built from the ground up for iPad, iPhone, and iPod touch, it lets you make compelling spreadsheets in minutes — with tables, charts, photos, and graphics — using just your fingers.’
<table>
<thead>
<tr>
<th><strong>Practice 4 GED Mathematics</strong> (iOS) — $2.99</th>
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<td>‘Steck-Vaughn has been preparing learners for the GED® test for over 20 years. Learn and practice with proven resources now designed for mobile learning!’</td>
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<th><strong>Calculator for iPad</strong> (iOS) — $0.99</th>
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<td>‘With 7 skin designs Calculator for iPad will offer you much more than the original calculator. The user experience and accuracy will be perfect. With the included HD images and skins your calculator will be ready to roll at all times.’</td>
</tr>
</tbody>
</table>
Mathematical knowledge and skills - number and algebra

ACSF 10

‘What if my learner has never solved mathematical problems with algebra before?’

App: Algebra Problem Solving Skills

Description:

Algebra Problem Solving Skills gives learners techniques to solve word-based problems using maths and algebra. This app uses videos which explain concepts in a straightforward way, and covers six chapters of material, including pre-algebra, basic and advanced algebra.

Developer Website:

http://www.takebackmath.com/

$4.49
iOS App Store Link:

Size: 1.7 MB

Foundation Skills:
This app is useful for setting activities that address the focus area of Mathematical knowledge and skills - number and algebra (ACSF 10). Here are some activities you can use the Algebra Problem Solving Skills app for in order to engage some performance features:

- understand place value and recognise and compare whole number amounts (into the 100s), halves and quantities, including money, in personally relevant contexts
- add and subtract simple whole number amounts (into the 100s) and familiar monetary amounts in personally relevant contexts
- identify and use whole numbers, including numbers into the 1000s, money and simple everyday fractions, decimals and percentages (e.g. 1/4, 1/10, 50% or 0.25)
- perform a limited range of familiar and predictable calculations with the four operations (+, −, x, ÷) with division and multiplication related to small whole number values
- begin to understand the order of the four arithmetical operations
- calculate with whole numbers and everyday or routine fractions, decimals and percentages, and where appropriate converting between equivalent forms (includes dividing by small whole numbers only, with division by decimal values and long division worked out on a calculator; calculations with simple fractions to be multiplication of whole number values only, e.g. 20% or 1/5 of $250)
• use and apply order of arithmetical operations to solve multi-step calculations

• use and apply rates in familiar or routine situations (e.g. km/hr, $/kg or $/m)

• use and apply relevant ratio, rates and proportions (e.g. scales on maps and plans, in the mixing of chemicals or ingredients, or calculating magnification factors)

• calculate with fractions, decimals and percentages and flexibly use equivalent forms; calculate with relevant positive and negative numbers; and use numbers expressed as roots and powers (e.g. $23 = 8$, $\sqrt{4} = 2$ or $3.6 \times 10^3 = 3,600$

• develop, interpret and use routine formulae and algebraic representations and conventions that describe relationships between variables in relevant contexts, e.g. in sport, when considering the cost of repairs, in calculating routine area and volume, using Pythagoras’s theorem or in using workplace formulae

• use and solve a range of equations using a variety of algebraic techniques.

Other similar apps:

Algebra Tutor (Android) — Free

‘Practice and learn Pre-algebra and Algebra topics! Walk through step-by-step solutions to see where you made your mistake. See your stats for every problem type (saved across app runs). Work out problems without needing to take notes. Get math help wherever you are.’
<table>
<thead>
<tr>
<th>App Name</th>
<th>Price</th>
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<tbody>
<tr>
<td>Wolfram Algebra Course Assistant (iOS) — $1.99</td>
<td></td>
</tr>
<tr>
<td>Taking algebra? Then you need the Wolfram Algebra Course Assistant. This definitive app for algebra--from the world leader in math software--will help you quickly solve your homework problems, ace your tests, and learn algebra concepts so you're prepared for your next courses.'</td>
<td></td>
</tr>
<tr>
<td>Everyday Mathematics® Equivalent Fractions (iOS) — $1.99</td>
<td></td>
</tr>
<tr>
<td>The Equivalent Fractions game by McGraw Hill offers a quick and easy way to practice and reinforce fraction concepts and relationships. This game runs on the iPad, iPhone, and iPod Touch.'</td>
<td></td>
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</tbody>
</table>
Mathematical knowledge and skills: measurement and geometry

ACSF 10

‘What app can I use to demonstrate the concepts of geometry, 2D and 3D shapes and properties such as angle, mass and volume?’

App: Solids Elementary HD

Description:
Solids Elementary HD allows learners to explore 2D and 3D shapes using an intuitive multi-touch interface. Shapes can be rotated and unfolded in 3D, and the components explored in detail.

Developer Website:
https://www.facebook.com/pages/Solids-Elementary/257230284383127
iOS App Store Link:


Size: 27.3 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of **Mathematical knowledge and skills - measurement and geometry** (ACSF 10). Here are some activities you can use the Solids Elementary HD app for in order to engage some performance features:

- recognise and compare familiar shapes and objects in relation to size and shape
- recognise and compare familiar basic metric measurements and quantities such as length, mass, capacity/volume, time, temperature, e.g. personal height and weight, a litre of milk or vehicle height clearances
- order and group shapes and measurements, explaining any simple relationships or patterns (e.g. four-sided shapes or quantities from smallest to largest)
- identify, draw and describe common 2D shapes and some common 3D shapes (e.g. sphere, cube or cylinder)
- measure and estimate length, mass, capacity/volume, time and temperature, using simple instruments graduated in familiar units (e.g. cm, m, ml, °C or hours/min/sec)
- apply knowledge of properties of 2D and 3D shapes to describe and draw everyday objects, including constructing common 3D shapes
• measure, estimate and calculate length, perimeter, mass, capacity/volume, time, temperature and simple area (for rectangular areas only, using $A = L \times W$, or estimates area of a non-rectangular shape by counting squares)

• identify and estimate common angles, e.g. as a rotation with a full turn $= 360^\circ$ and recognition of right angles as $90^\circ$

• convert between routine metric units by applying understanding of common prefixes, e.g. milli, centi or kilo

• use knowledge about space and shape, including angle properties, symmetry and similarity to describe, draw or construct relevant common 2D and 3D shapes, such as compound shapes

• estimate, accurately measure and calculate quantities, including areas and volumes, using relevant routine formulae

• convert within the metric system and between metric and other relevant non-metric units

• use and apply knowledge about space and shape, including angle properties, symmetry and similarity to describe, draw or construct accurate 2D and 3D shapes and scale plans and drawings

• estimate, accurately measure and calculate quantities, including for complex areas and volumes using measurement formulae.
Other similar apps:

**HMH Fuse: Geometry, Common Core Edition** (iOS) — Free

‘The award-winning and revolutionary HMH Fuse™ is a highly interactive and engaging curriculum designed for the Apple iPad. HMH Fuse Geometry Common Core Edition gives every student a personalized learning experience using video tutorials, MathMotion step-by-step examples, homework help, quizzes, tips, hints, and many other integrated features to teach, review, and assess all concepts.’

**Triangle Solver** (iOS) — Free

‘If you know two angles and one side of a triangle, quickly and easily calculate the rest. Also handles cases where you know two sides and one angle, or three sides and no angles.’
‘What app can I use to teach statistics to a learner who has limited understanding of how the formal components of statistics work?’

App: AtMyPace: Statistics

Description:

AtMyPace: Statistics uses a combination of video and quiz exercises learners can repeat in order to gain insight into the subject of statistics. App content includes interpreting and using statistical information, covering: types of data, methods of sampling, understanding the p-value, scatter plots, confidence intervals and more.

Developer Website:

https://www.facebook.com/AtMyPace
iOS App Store Link:


Size: 1.6 MB

Foundation Skills:

This app is useful for setting activities that address the focus area of Mathematical knowledge and skills: statistics and probability (ACSF 10). Here are some activities you can use the AtMyPace: Statistics app for in order to engage some performance features:

- compare information and data within highly familiar simple texts, lists, charts, diagrams and tables
- order, where appropriate, and use familiar data to construct simple charts and tables based on provided scales and axes with gradations of 1s, 5s or 10s
- collect and organise familiar data and constructs tables, graphs and charts, manually or with spreadsheets, using simple and familiar or routine scales and axes
- describe, compare and interpret the likelihood of everyday chance events (e.g. rolling a six on a dice or the chance of rain) using qualitative terms such as certain, likely, impossible and relates these to everyday or routine fractions, decimals or percentages
- collect, represent, summarise and interpret a range of statistical data appropriately, e.g. in tables, spreadsheets, graphs, plots, measures of central tendency (mean, median, mode) and simple measures of spread
- use knowledge about chance and probability to estimate and interpret the outcomes of common chance events in both numerical and qualitative terms
• collect, organise and analyse data, including grouped data, using measures of central tendency, percentiles and measures of spread, and interprets and draws conclusions about trends and data reliability

• use and apply knowledge about probability to a range of relevant contexts (e.g. sporting events), calculates theoretical probabilities and uses tree diagrams to investigate the probability of outcomes in simple multiple event trials.

Other similar apps:

Statistics Quick Reference (Android) — Free

‘Statistics Quick Reference was designed by a qualified statistics Instructor. Each of the concepts was explained in detail, followed by an example for better understanding.’

Statistics 1 (iOS) — $2.99

‘The app was designed by educational psychology Ph.D.s, statistics teachers, and software experts. Many of us learned stats the traditional, boring way – through books and lectures. We always wanted more interactive, visual, and engaging ways to learn stats. Statistics has many abstract concepts so we use real-world examples to anchor your understanding.’

StatsMate (iOS) — $1.99

‘Statistics is not about spending time in tables. With StatsMate, looking for a statistical value and do statistics calculation have never been easier.’
‘How can I demonstrate written mathematical language to a learner for them to practice?’

App: MathBoard

**Description:**

MathBoard is an app for teaching written mathematical language in a natural way. It gives learners a virtual blackboard, which generates random problems, simple arithmetic equations, and timed quizzes. Answers to questions are explained step-by-step, helping learners to identify and fix process errors.

**Developer Website:**

**Foundation Skills:**

This app is useful for setting activities that address the focus area of **Written mathematical language** (ACSF 11). Here are some activities you can use the MathBoard app for in order to engage some performance features:

- write numbers and monetary amounts into the 100s
- use a combination of mainly informal and some formal written mathematical and general language to represent the mathematical and problem solving process
- use a combination of both informal and formal written mathematical language and symbols and general language to document and report on the mathematical and problem solving process and results
- use a combination of informal, but mostly formal, written mathematical and general language, including some specialised mathematical symbolism, abbreviations, terminology and representation to document, interpret and communicate the processes, results and implications of the mathematical activities or tasks
- use a combination of formal, written specialised mathematical and general language and representation to document, interpret and communicate the mathematical thinking, problem solving processes, outcomes and implications of the mathematical investigation.
Other similar apps:

- **Mathematical Formulas** (iOS) — $0.99

  ‘Mathematical Formulas is the perfect app for you who likes mathematics and easily forgets formulas which you need in certain situation. Without a good app, it's tough to remember all these complicated and easy forgettable formulas. You don't even want to write down all you formulas on ten or even 20 different post-it papers and losing them all the time.’

- **MiniMod Algebra One HD** (iOS) — $9.49

  ‘If you are new to the TI-Nspire graphing calculator, and you are enrolled in the first semester algebra course, this app is for you. The app includes 33 short video clips that will cover key topics in the first semester of algebra.’

- **32 HD** (iOS) — $0.99

  ‘32 HD contains five levels of complexity with over 200 different mathematical puzzles! Whether you are working on the order of operations or just looking for a mathematical app to help keep your mind sharp, 32 is sure to challenge!’
Apps to enhance accessibility
Accessibility features - iOS

Apple’s iOS (the operating system that powers the iPhone, iPad and iPod touch) has comprehensive accessibility support within the consumer market today. Apple has made significant strides in improving the experience of using a touch-screen device for learners who are blind or have low-vision, are hearing-impaired or have a physical disability.

Using a combination of technologies that are integrated into the operating system, developers of third party apps can also create their own apps which have accessibility features built-in. Overall; accessibility support in iOS is much more widespread in downloaded and installed apps.

Unless specified below, all of these features are available across the entire iOS line of products, including iPhone, iPad and iPod touch.

Major features in summary

Display Controls - Allows the user to dynamically magnify the entire device screen, increase text size, invert the colours on the display and more.

Audio Controls - Allows the user to assign custom vibrations to a contact's call, adjust the audio output, adjust the speaking rate of spoken text, speak the text corrections while users type and more.

Voice Control, Siri and Dictation - Allows users to make phone calls, dictate and use a variety of functions with voice-based commands.

VoiceOver - A screen-reading tool which also supports gestures and touch to navigate any interface on the iPhone and iPad. In many ways, this is superior to traditional screen-reader software because it gives the user both the descriptive information as well as a sense of locational context within the application.

More information is available at:

Major features

Display Controls

Zoom

While many iOS apps allow you to zoom in and out with gestures like pinch-to-zoom (like Safari, or Mail for example), but some apps are not designed this way. Enabling Zoom allows you to magnify the interface of any application or screen, regardless of how it is designed.

Once Zoom has been enabled, you can activate it with a double-tap with three fingers. By default it will zoom in to double the size (200% magnification). This can be adjusted to any value between 100%-500% by a double-tap and drag with three fingers.

Once zoomed, you can also move around the zoomed-in view by dragging three fingers around the screen.

Where? Settings > General > Accessibility > Zoom

Large Text

The Large Text option allows you to increase the font size for some of the default applications included with iOS. This list includes:

- Calendar
- Contacts
- Mail
- Messages
- Notes

You can adjust the text size from the default size to 20pt, 24pt, 32pt, 40pt, 48pt and up to a maximum of 56pt.

Where? Settings > General > Accessibility > Large Text
White on Black

Useful for users who prefer high-contrast screens, the **White on Black** option allows you to invert the colours on the screen. This option works across all parts of the operating system.

**Where?** Settings > General > Accessibility > White on Black

Audio Controls

Custom Vibrations

Custom Vibrations allow a user to assign a unique vibration pattern to any person in the Contacts app. This means when that specific person calls, the phone will vibrate in a way that is unique to that caller; allowing you to identify them without using the screen.

**Where?** To activate the setting, go to Settings > General > Accessibility > Custom Vibrations

To enable a custom vibration for a person, navigate to their contact, and tap **Edit**. This should now allow you add a specific **Vibration** setting to their contact sheet. You can choose from the pre-set vibration patterns, or record your own custom vibration pattern.
Mono Audio

This setting allows you to combine a stereo signal (left and right channels of audio) into a single audio source. This is particularly useful for assistive hearing / hearing-aid devices. This also includes a slider so you can independently adjust volume for each channel, or specify a single audio output (left or right channel only).

Where? Settings > General > Accessibility > Mono Audio

Speak selection

This setting allows you to speak any selectable text in any application. It works in a similar way to copy/cut/paste; you first select the text, then an additional option appears labelled Speak. This will speak the selected text. In addition to enabling this option, you can also customise the speed at which the voice speaks the text (slower or faster).

Where? Settings > General > Accessibility > Speak Selection

Speak auto-text

This setting will automatically speak any text which is suggested, auto-corrected or capitalised while users type.

Where? Settings > General > Accessibility > Speak auto-text
LED Flash for Alerts

This setting allows incoming calls and alerts to notify you via the LED flash on the back of the iPhone.

Once your phone is set to silent (by flipping the silent ringer switch on the side of the phone), any incoming alerts will make the LED flash blink 3 times instead of ringing.

[Silent ringer switch, back of the iPhone screenshot]

**Where?** Settings > General > Accessibility > LED Flash for Alerts

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Voice Control, Siri and Dictation

**Voice Control**

Voice Control is a feature of iPhone 4S, iPhone 4, iPhone 3GS, iPod touch (3rd generation), and iPod touch (4th generation). It allows a user to call or FaceTime (video call) another person by speaking their name.

Voice Control is activated by pressing and holding the Home button from any screen. If you are wearing the headset that comes with the iPhone, you can also press and hold the button on the built-in microphone to activate Voice Control.

Once Voice Control is active, you simply speak the name of the person you'd like to call. Voice Control will then dial that person's number for you. If there are multiple numbers associated with their contact, the voice feedback may ask you to specify which number (eg. home, mobile, work) and then dial.

Voice Control can also control music playback functionality on the device, including play, pause, next and previous. It also allows you to play all songs in an album, playlist or artist by speaking.

**More information is available at:**

[http://support.apple.com/kb/ht3597](http://support.apple.com/kb/ht3597)
Siri

Siri is an advanced form of Voice Control for the iPhone. It uses sophisticated natural language and voice recognition to do a much wider-ranging set of tasks, including:

- voice dialling
- reading, composing and responding to text messages
- reading, composing and responding to email
- organising appointments and calendar dates
- checking the weather
- setting reminders, timers and alarms
- music playback
- looking up general information.

There are limitations to the Australian version of Siri, which means Australian users cannot access the following:

- maps and directions
- business enquiries and lookups
- traffic.

Siri is currently only available on the iPhone 4S (though it is coming to the iPad when iOS 6 is released). Siri also requires an active internet connection, because the voice processing and natural language interpretation is done by being sent to a central location.

Siri boosts the accessibility of the iPhone because it can accomplish many tasks by voice which would traditionally require a number of steps on the device to do.

More information is available at:

Dictation

Dictation is available by tapping the microphone button as part of the on-screen keyboard (to the left of the spacebar). It can be used as an alternative for entering text with the keyboard. Simply tap the dictation button, speak any text (including punctuation), and dictation will convert your voice to text.

Dictation is only available on the iPhone 4S and the iPad. It also requires an internet connection.

More information is available at:

http://support.apple.com/kb/HT5176

VoiceOver

VoiceOver is a screen reader developed by Apple to assist blind or low-vision users with the navigation of a touch screen. It makes use of a gesture-based metaphor, giving the user descriptive information as well as context of the interface.

This is different from most types of screen reader software because generally they will display items as a series of lists or strip out the context to present the user with just the information.

A video of VoiceOver in action can be seen here:

http://www.apple.com/accessibility/iphone/vision.html#overlaycontent

VoiceOver is one of the most important pieces of accessibility technology in the iPhone, and works with any app. Developers of apps also have a number of tools to make sure their app works well with VoiceOver.
VoiceOver also allows you to fine-tune your navigation with a function called the Rotor. The rotor is engaged in VoiceOver mode with a two fingered twist. Extremely important for browsing webpages, the rotor allows you to specify what elements in a page are being navigated across. For example, you can engage the rotor to make VoiceOver only interpret header-style tags, then flick up and down to browse only the headings on a page.

The spoken voice in VoiceOver can also be customised, by enabling phonetics, pitch change and compact voice.

There is also a language rotor in VoiceOver, which allows simple switching of interpreted language (for example, English to Spanish). This makes it simple for multilingual users of VoiceOver.

VoiceOver can also work with other assistive connected devices, like Braille hardware or keyboards.
Accessibility features - Android

Google's Android (the operating system which powers many smartphones and tablets) has many differing versions, device manufacturers, and hardware configurations in the consumer market today. Several device makers ship Android phones and tablets, including HTC, Samsung, Sony, LG, Motorola & many others.

This makes it difficult to give an overall picture of how accessibility works across the entire platform; the standards governing Android leave it up to the manufacturers to comply with accessibility standards, so device support varies wildly. Two devices were tested in the compilation of this report; the HTC One X (released May 2012, running Android 4.0 'Ice Cream Sandwich') and the LG P970 (released April 2011, running Android 2.3 'Gingerbread').

Major features in summary

Android's accessibility features are installed separately as apps, and can then be used across the whole operating system. There are three major accessibility apps which can be installed across the majority of devices (via the Google Play store).

TalkBack - provides spoken feedback to describe the results of actions (e.g. launching an app, events, notifications or incoming calls).

Kickback - allows you to assign vibrations patterns to different actions on your phone.

SoundBack - allows you to assign sounds to different actions on your phone.

Two other features were also added for devices running Android 4.0 (Ice Cream Sandwich) and above:

Explore by Touch - a system feature that works in conjunction with TalkBack, allowing you to touch your phone's screen and hear what's under your finger via spoken feedback. This feature is helpful if a user is blind or has low vision.

Accessibility settings - let you modify your phone's display and sound options, such as increasing the text size, ending a call using the power button, and more.
These apps are not compatible with all devices, so a purchaser generally has to be wary that all accessibility features will work on the model of their choice. In the two test models the:

- HTC One X supported TalkBack, Explore by Touch and Accessibility settings. It did not support KickBack and SoundBack
- LG P970 supported TalkBack only.

More info on device selection is available at:

Eyes-Free Project – Choosing a phone
Apps designed for accessibility

App: Ariadne GPS

Requirements:
Compatible with iPhone, iPod touch, and iPad. Requires iOS 5.0 or later.

Description:
Ariadne GPS is a unique app, which gives users a talking map to interact with. Using GPS and compass sensors, Ariadne GPS can identify a user’s position and orientation. By touching the top of the screen it will tell you what’s in front of you, and by touching the bottom of the screen what’s behind you. It will also tell you street names and numbers around you simply by touching different regions of the screen.

Ariadne GPS is fully accessible with VoiceOver and has been designed to be optimised for users who are blind users or who have low vision.

This app is useful for any exercise, activity or occupation that requires navigation through an outdoor environment.

Developer Website:
http://www.ariadnegps.eu/

iOS App Store Link:

Size: 6.7 MB

App support:
Last update 16 Feb 2012
Contact at: info@ariadnegps.eu
App: Bookmark

Requirements:
Compatible with iPhone, iPod touch, and iPad. Requires iOS 4.0 or later.

Description:
Bookmark is an app for listening to audiobooks and podcasts. It also supports adding personal bookmarks to an audio file, so users can add custom notes and titles to a portion of the audio. The app will also ‘bookmark’ audiobooks so users can mark and pick appropriate sections at a later time. Audio content is available for a number of formats, including MP3.

The app is fully accessible using VoiceOver, and has an easy-to-use interface that makes it easy to navigate.

Bookmark is useful for storing and listening to educational notes, podcasts or audiobooks in order to study for any subject.

Developer Website:
http://bookmarkapp.com/

iOS App Store Link:

Size: 2.8 MB

App support:
Last update 10 Dec, 2011

Contact at: support@bookmarkapp.com
App: Downcast

Requirements:
Compatible with iPhone, iPod touch, and iPad. Requires iOS 4.0 or later.

Description:
Downcast is an app for managing, downloading and listening to podcasts. New episodes will be automatically downloaded, and the app will also remember a user’s position in a podcast, so they can stop and pick it up again later. Downcast also comes with gesture support, making commonly used actions within the app easier.

The app is fully accessible using VoiceOver.

Developer Website:
http://www.downcastapp.com/

iOS App Store Link:

Size: 26.4 MB

App support:
Last update 21 Jun, 2012

Contact at: http://support.downcastapp.com/
App: Dragon Dictation

Requirements:

Compatible with iPhone, iPod touch, and iPad. Requires iOS 4.0 or later.

Description:

Dragon Dictation is an app for dictation. It allows users to quickly and naturally speak words, which are converted to text. The app can be used to send text messages, emails, write notes, update social networking sites and more.

Dragon Dictation is fully accessible using VoiceOver. It is also useful for converting voice into text for other apps which are not designed to accommodate accessibility, and dictating to any iOS device which does not have the official dictation feature (iPhone 4 and below).

Developer Website:

http://www.nuancemobilelife.com/

iOS App Store Link:


Size: 8.4 MB

App support:

Last update 08 Jun, 2012

Contact at:

http://www.nuancemobilelife.com/support/Australia/engaus/dragon-dictation/
App: Feeddler RSS Reader for iPad and iPhone

Requirements:
Compatible with iPhone, iPod touch, and iPad. Requires iOS 3.0 or later.

Description:
Feeddler is an app that can read RSS feeds from websites. It allows users to subscribe to a website, and when the website content is updated the stories are pushed out in a friendly, readable format. The app has a number of features, including sharing to social networking sites, saving, tagging articles and sorting.

Feeddler is fully navigable with VoiceOver.

Developer Website:

iOS App Store Link:

Size: 6.8 MB

App support:
Last update 27 Sept, 2011
Contact at: feeddler@gmail.com
App: Stem Stumper

Requirements:

Compatible with iPhone, iPod touch, iPad and Android. Requires iOS 3.0 or later, or Android 1.9 or later.

Description:

Stem Stumper is an accessible game for people who are blind or have low-vision accessible game. Using sound, users can guide the character Mimea the vine through over 100 levels without the use of the screen.

This app is useful in a number of ways to explore problem-solving exercises. It can also be used in an educational

case as an activity where the performance features include use of context and information to determine a situation.

Developer Website:

http://www.ananseproductions.com/StemStumper/

iOS App Store Link:


Google Play Link:

https://play.google.com/store/apps/details?id=com.ananse.OLOM1&feature=search_result#?t=W251bGwsMSwyLDEsImNvbS5hbmdnLmNvbS55bmc5bmFuc2U0T0xPTTEiXQ

Size: 14.9 MB

App support:

Last update 27 Sept, 2011

Contact at: kwasi.mensah@ananseproductions.com
App: TuneIn Radio Pro

Requirements:

Compatible with iPhone, iPod touch, iPad and Android. Requires iOS 3.0 or later, or Android 1.6 or later.

Description:

TuneIn Radio is a way to listen to radio stations across the world for free. There are a variety of different stations to choose from including sport, news, educational and more. Users can also record the radio back onto their own device.

This app is useful in a variety of educational contexts where the interplay of current events and news can be sequenced into a learning activity, critical thinking or reflective exercise.

Developer Website:

http://tunein.com/

iOS App Store Link:


Google Play Link:


Size: 13.1 MB

App support:

Last update 01 May, 2012

Contact at: http://tunein.com/contact/
App: VizWiz

Requirements:
Compatible with iPhone, iPod touch. Requires iOS 4.0 or later.

Description:
VizWiz lets users who are blind recruit remote assistance from sighted support people to help them with visual problems in nearly real-time. Users take a picture with their phone, speak a question, and then receive multiple spoken responses.

VizWiz can be useful in a variety of visual identification educational tasks. However, it is best used as a backup or emergency tool, and not a foundational tool.

Developer Website:
http://www.vizwiz.org/

iOS App Store Link:

Size: 1.4 MB

App support:
Last update 22 Apr, 2012
Contact at: http://www.vizwiz.org/contact.php
App: Read2Go

Requirements:
Compatible with iPhone, iPod touch, and iPad. Requires iOS 4.0 or later.

Description
Read2Go allows users to browse, search, download, and read books directly from Bookshare with a Bookshare membership, and read DAISY books from other sources. The app gives users full control over visual choices for font size and colour, background and highlighting colour, and text-to-speech preferences. Read2Go features word-by-word highlighting for multi-modal reading and synchronised text-to-speech. It is highly-navigable with VoiceOver gestures and also works with Braille displays connected via Bluetooth.

This app is useful for studying or revision of notes, analysis of expert material, and any other general reading skills and activities.

Developer Website:
http://read2go.org/

IOS App Store Link:
http://itunes.apple.com/au/app/read2go/id425585903?mt=8

Size: 109 MB

App support:
Last update 22 Apr, 2012
Contact at: http://read2go.uservoice.com/forums/90705-read2go-user-feedback-forum
App: Digit-Eyes Audio Scanner and Labeller

Requirements:

Compatible with iPhone 3GS, iPhone 4, iPhone 4S, iPod touch (4th generation), iPad 2 Wi-Fi, iPad 2 Wi-Fi + 3G, iPad (3rd generation) and iPad Wi-Fi + 4G. Requires iOS 4.0 or later.

Description

Digit-Eyes reads barcode labels. It enables users who are blind or who have low vision to scan UPC / EAN codes and hear the names of over 25 million products. Users can also make their own barcode labels on the Digit-Eyes website and print them on inexpensive address labels. These barcodes may contain text that VoiceOver reads aloud or they can be used to record audio on your phone that is played back whenever the bar code is scanned.

This app can be used in a variety on contexts, from identifying objects to pulling up additional or supporting information in context when a label is applied to a surface, environment or object.

Developer Website:

http://www.digit-eyes.com/

IOS App Store Link:


Size: 0.7 MB

App support:

Last update 27 Jun, 2012

Contact at: http://www.digit-eyes.com/question_form.html
App: Assistive Chat

Requirements:

Compatible with iPhone, iPod touch and iPad. Requires iOS 3.1 or later.

Description:

Assistive Chat is an app intended to replace an Augmentative Alternative Communication (AAC) device. It helps users who have difficulty with speech by cutting down the number of buttons or keystrokes to build and relay sentences, with natural-sounding voices.

This app could be used in an educational context by taking a supportive role in topics or elements with a communication component. It can help role-play, reflection or critical thinking tasks by allowing the user to communicate their thoughts in a simple and timely manner.

Developer Website:

http://www.assistiveapps.com/

IOS App Store Link:


Size: 171 MB

App support:

Last update 27 Jun, 2012

Contact at:

http://www.assistiveapps.com/index.php?option=com_contact andview=contactandid=1andItemid=4