
Stirling and Clackmannanshire Education Service



20#20 Excellence in Learning Technology



A 5-Year Ambitious, Aspirational and Achievable ICT Strategy

Our Vision

The 20#20 Excellence in Learning Technology Vision is one of high achievement, attainment, ambition and inclusion, promoting excellence for all our children and young people across Stirling and Clackmannanshire through the use of 21st century learning technologies.

The 20#20 Excellence in Learning Technology Vision is closely aligned with the Scottish Government's ICT in Learning Vision; *"Scotland's educators, learners and parents take full advantage of the opportunities offered by technology in order to raise attainment, ambition and opportunities for all."*

Guide to buying iPads

Summary

The buying process is very similar to the purchase of any ICT equipment currently.

1. Contact servicedesk@stirling.gov.uk or IT@clacks.gov.uk with an email outlining your requirements, and request a copy of the latest XMA "National Framework" pdf
2. Use the sample excel spreadsheet to calculate the cost of one or more devices, noting the support 'conditions' below.
3. Submit your cost-centre with the completed excel spreadsheet to the helpdesk and ask them to buy the devices on your behalf. *Please specify whether the devices will be used by staff or pupils*

What is mandatory, and what is optional, as specified on the spreadsheet?

1. All iPads should be laser asset tagged to reduce the chance of theft ~£7 per iPad
2. All iPads should be bought with a sturdy case to protect them from damage (*see options*)
3. All Apple devices, by default, will be enrolled in DEP
4. A set of 'core-apps' will be charged for, and added by default ~£10 per iPad

➤ ***The mandatory items ensure that you get a device delivered to you that is already set up and ready to be used in classes.***

5. There are options to buy insurance and extended warranty for devices (*see options*)
6. There are options to buy connectors to link your iPad(s) to class projectors etc., and an option to buy Apple TV to connect your devices together (*see options*)
7. There are other options for storage and charging (*not included here*)

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Options for cases

The only 2 types of cases that we recommend are the STM Dux and the Griffin Survivor:

1. The STM Dux is slim-line and 'good-looking' but strong protection against the usual kinds of 'drop'. The STM Dux we recommend for the regular user - in class, in bag, at home
2. The Griffin Survivor is military strength, very strong and thick/heavy. The Griffin Survivor we recommend for the outdoor user - geo caching, on a PE field or where damage is very likely.

➤ *Details and images of the two cases can be seen on Amazon - links below.*

STM Dux

http://www.amazon.co.uk/Apple-Case-iPad-Mini-Mini2/dp/B00KGIZLSW/ref=sr_1_3?s=computers&ie=UTF8&qid=1442216777&sr=1-3&keywords=stm+dux+ipad+mini+case

- | | | |
|----|-----------------------------------------------------------------|--------|
| a. | STM Dux Rugged Case iPad Mini (Black) 222066GB01EDU | £21.00 |
| b. | STM Dux Rugged Case iPad Air (Black/Blue/Red) 222066JZB01EDUC | £25.99 |
| c. | STM DUX Rugged Case iPad Air2 (Black, Blue, Red) STM222066JY01E | £25.99 |

Griffin Survivor

<http://www.amazon.co.uk/Griffin-Survivor-Case-iPad-Black/dp/B009VXH3UW>

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|----|-----------------------------------------------------------|--------|
| a. | Griffin Survivor Ruggedised case for iPad mini: GB35918-3 | £21.27 |
| b. | Griffin Survivor Ruggedised case for iPad Air: GB36307 | £25.99 |
| c. | Griffin Survivor Ruggedised case for iPad Air2: GB40336 | £25.99 |

Options for insurance & extended warranty

We have no specific recommendation, however the most relevant option costs £36 per iPad: XIADT3-300 - MendIT Accidental Damage 3 Year*(for iPads each costing up to £300 cost inc.VAT)

Options for connectivity

No connectors are required to use an iPad individually. However, if you want to show your iPad screen on the interactive board, you will need 1 or more of the following:

1. Plugging in by wire, using the standard 'lightning' charger cable will require an Apple Lightning to VGA adaptor
 - a. Adapter MD825ZM/A £ 27.58
2. Using an Apple TV to mirror the iPad screen through Wi-Fi, on an older projector (i.e. most schools) requires an Apple TV and VGA (projector) adaptor cable
 - a. Apple TV - D199B/A £ 47.00
 - b. Kanex ATV Pro - KANATVPRO £35.00
3. Using an Apple TV to mirror the iPad screen through Wi-Fi, on a newer HDMI projector requires an Apple TV only
 - a. Apple TV - D199B/A £ 47.00
4. Other options include using a Chromecast to cast the screen through Wi-Fi. Within an Apple and school context, the Chromecast is a cheaper but not yet fully developed idea.

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Options for Core Apps

One of the greatest strengths of Android and iOS iPads is the almost limitless extent of educational apps that can support a learner. Equally, the biggest challenge facing schools when starting with iPads is trying to decide which apps to install. Quickly, the pedagogy goes out the window and an app comparison commences. Instead, it is critical that we remain focussed on the learning and the desired outcome (improved feedback, personalised learning etc.) and then look for the apps to achieve our ambitions. The core-apps that are provided as standards, and those you pay for as part of an iPad purchase will act as a backbone to learning and teaching using iPads.

- The core (paid) apps include Explain Everything & Book Creator
- We recommend you do not download more apps until you are confidently delivering using the ones provided.

Further sources of advice/guidance on suitable apps can be found at:

<https://blogs.glowscotland.org.uk/st/sctech4learning/padagogy-ipad-app-wheels/>

- The Original!!!! Blooms/SAMR. With 'live' embedded links!
<http://www.unity.net.au/padwheel/padwheelposter.pdf>
- iPad Apps for Learners with Dyslexia/Reading and Writing Difficulties
http://www.callscotland.org.uk/Common-Assets/ckfinder/userfiles/files/Wheel_of_Apps_V1_0.pdf
- iPad Apps for Complex Communication Support Needs: Augmentative and Alternative Communication (AAC)
<http://www.callscotland.org.uk/Common-Assets/ckfinder/userfiles/files/iPad-Apps-for-Complex-Communication-Support-Needs.pdf>
- Apps for Students with Autism Spectrum Disorders
https://www.autismspeaks.org/sites/default/files/pedagogy_wheel.pdf
- Bloom's Taxonomy (Teach with your iPad)
<http://teachwithyouripad.wikispaces.com/Blooms+Taxonomy+with+Apps>
- iPad apps to support creativity
[ipad-apps-to-support-creativity](#)

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Profiles and Restrictions

As part of the MDM, we are able to enforce restrictions (particularly within iPads) that limit the capability of pupils and/or teachers using Mobile Devices. Some restrictions will prove to be desirable (to reduce distractions), while others will be unhelpful. We have settled upon a fairly simple set of restrictions that should work for most circumstances. If you experience difficulties, please seek help and advice – we are at a very early stage with profiles.

What happens next?

1. The helpdesk will place your order according to the details on the spreadsheet and charge costs to your cost-centre.
2. Apple will supply the iPads (through XMA) to Stirling Council pre-enrolled in DEP*.
3. When the iPads arrive they will be placed into an MDM** (Mobile Device Management) system, which is linked to your school, and your school's Wi-Fi.
4. The technicians will push the core-apps to the devices and ensure that the iPads are ready for use in your particular school.
5. The iPads will be delivered to your school.
 - The timescale depends on the number of devices and other demands.

What else do I need to know?

Devices like iPads are intended to be 'mobile'. This increases the chance of being dropped. A sturdy case reduces the chance of damage if dropped. A case is mandatory, and we recommend only two types of case: Under normal circumstances, we suggest the STM rugged case, and for more extreme protection the Griffin Survivor can protect against more challenging circumstances. Examples might include taking an iPad out for field trips or Geo-caching. Choose based on intended use.

Devices like iPads are currently very desirable and hence 'steal-able'. A combination of laser etched asset tagging, DEP* and MDM** ensures that a stolen device is almost worthless to thieves. Asset tagging is therefore mandatory to protect a school's assets.

Setting up a set of iPads requires a lot of 'hidden' work. Some of this is explained below:

*DEP – Device Enrolment Programme – is a security solution provided by Apple at the hardware level. DEP prevents iPads from being stolen and then reset or jailbroken. Any attempt at resetting the device will fail. Consequently, a stolen device will not be able to be used illegally, and hence have little second-hand value. All Apple devices bought through the helpdesk come enrolled in DEP as standard now.

**MDM – Mobile Device Management – is a software tool that is used to manage (principally) iPads remotely. It gives technicians the scope to deploy apps and settings (profiles) to multiple devices simultaneously and to control, improve the experience of users without having to bring all the devices 'back in to the centre'.

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