

Pre-requisites for effective running of m	nultiple, wi-fi enabled student devices within primary school
Internet connection	<ul> <li>Fast – with multiple devices and modern demands, speeds of below 50Mbps are only adequate for smaller schools. Larger schools require connections of over 100Mbps, if not significantly more, for the smooth future running of staff and pupil devices.</li> <li>The bigger picture of this should be considered in order to make future-proofed decisions that are economic and allow for high speeds at reasonable cost. There is a strong argument for sourcing separate, commercial ISPs – and leaving services that bundle filtering and connection – in order to offer high speeds at an economic price point.</li> </ul>
Filtering	<ul> <li>Must be adequate for children's daily use; blocking what needs to be blocked / not blocking content that is required. This will always require attention.</li> <li>Teachers need to be able to request access to websites that are blocked – and app usage that is blocked - such issues need to be resolved within 24 hours, if not quicker.</li> </ul>
	<ul> <li>A case for creating a MAT's own filtering system, along with its own multi-site connection, is both economic and allows for the responsiveness required.</li> </ul>
Technical support	<ul> <li>Teachers need to be able to log requests time-efficiently and for those problems to be dealt with in a timely manner.</li> <li>Deployment of apps and services needs to be timely and without issues.</li> <li>A ticketed help-desk system is essential – free and budget-priced versions allows for everything a school may need. Contact us for latest.</li> </ul>
Procurement of equipment	<ul> <li>Multiple resellers offer multi-purchase deals on equipment; plus limited-time purchase opportunities. Keeping ahead of such deals and being able to purchase at speed is a key benefit. Look to mass national procurement schemes such as Bridge the Divide from LGFL.</li> </ul>



Strategy	Unit specification	Why?	Lifespan	Deployment
Strategy #1	Chromebooks with	Price per unit is very	4 years + of	Management of
Chromebooks in trolley sets of 32+	education	reasonable, though	good use;	units through
	deployment licencing	quality and usability	potentially a	Google Admin is
		of units needs to be	number of years	efficient and
	12-14 inch screens is	tested before mass	longer.	versatile – all
	ideal	purchase of any		completed
		particular model.	Note that	through a web-
	Minimum 32Gb RAM;		Chromebooks	based interface.
	32Gb storage.	Management of units	have a limited	
		is generally efficient,	lifetime of	Settings for
	Price per unit can be	quick and versatile.	support from	Chromebook
	below £200		when each	units should be
	spending below £300	Logging in process	model is	tweaked so that
The same of the sa	for higher quality	for children can be	released. Much	they run
	may well be worth it.	effective and	older models	optimally within
		efficient – make	may sometimes	school setting.
Vary much the majority device for children in schools	Each unit needs a	usernames and	be sold off	That might be
	licence for education	passwords lower	cheaply, but this	that units log
	deployment – costs	case and simple.	can be a false	out
Very much the majority device for children in schools,	around £20 but	Teachers can interact	economy in the	automatically
particularly Key Stage 2.	possibly can be re-	with children's	longer term.	when screen is
Tralleys research and him sturdy 22 have inite	used on future	Google account by		closed.
Trolleys – research and buy sturdy, 32 bay units.	Chromebook	logging into their		
	hardware.	browser using a PC or		
		Mac. See Wonde		
		below also.		



Wonde data-syncing Allows children of a IT admin need Strategy #2 Continuing solution for pupils primary age to access product that is to administrate Use of Wonde log-ins for pupil easy access and multiple services developing and this in syncing of accounts. Children are given a through one log-in becoming more conjunction with powerful as it 'magic badge' QR badge or emoji the requests of Recommendation for primary schools that are of a code or emoji password. links in with teachers. larger size. password. Magic further badges suitable for Allows smoothness education Giving key IT children from with admin tasks staff – such as products. wonde Reception up. Emoji involving Google ICT copasswords work fine services – such as System needs a ordinators – for Yr4 up, possibly setting up Google fast internet access can be Simple Logins with Emojis or a Magic Badge! Yr3. Classsrooms connection for useful. nd other school staff. Choose your login automatically. logging in with eference... Emojis, Magic badge or an email All data is linked 30 devices. through from the Without that, it school's MIS. may well be Imperative that MIS worth holding is kept up-to-date back on. and used without ambiguity. Price: has increased notably meaning that smaller schools may

question viability.



#### Strategy #3



iPads in sets of 8.
Portable box deployment for easy portability
USB hub for charging

Larger, education spec units give the best value.

Kept alongside a USB hub for charging and a plastic container for transportation.

This setup has advantages over locked cabinet options (cost, portability and ability to charge from various locations) though needs to be implemented thoughtfully – return of box to specific location / locking away at night possibly.

iPads provide fast, immediate access to online resources and apps

Effective for younger children accessing technology.
Apple apps for multimedia purposes are sgenerally very good, and especially reliable:

- \* Video filming and editing
- \* Stop-frame animation
- \* Green screening
- \* Music and sound
- \* Google expeditions and augmented reality
- \* Data logging apps \* Seesaw
- Also: key purpose for programmable hardware (Sphero robots etc.)

4 years + of good use; potentially a number of years longer.

You will want to buy robust cases – not folio ones since the flap gets in the way, especially when younger children use them. A box of 8 is an ideal number. Having 2 boxes of 8 would mean that iPads can be pooled together for 1 between 2 within a class.

Other configurations are also possible, as required and requested by staff. This setup works conveniently and effectively. and also allows Apple Classroom to be deployed as an effective tool for teachers to manage app usage.



#### Strategy #4

Purchasing of additional curriculum enabling equipment for Computing. Shared purchasing for smaller schools.









Let's Go Code Activity Set – approx £25 per set

Sphero programmable robots (either Sphero mini or Sphero Ollie) – good value if purchased carefully. A box of 6 of these will provide a class with 6 groups to each work with their own programmable robot.

Microbits – box of 10 includes battery holder and batteries / USB cable.
Enough for 1 microbit

Enough for 1 microbit between 2 children should be aimed for.

Giving children access to these hardware coding opportunities really opens up their minds to the possibilities of technology around them.

The products I have selected here are relatively cheap and provide easy use within classroom settings.

To be used in conjunction with plans and ideas provided by Computing curriculum guidance.

Equipment needs to be handled and stored carefully, even if this equipment is robust to some extent.

4+ years of good use with individual replacements possible if there are breakages.

Charging units for sphero robots (USB hubs, around £20 each) should be purchased as part of a box set.