

# Portsmouth: The Digital City

## Update for Heads 16.11.2022

Gemma Gwilliam

Head of Digital Learning, Education and Innovation

Strategic Lead for PEP Priority 2

Email: [ggwilliam@copnorprimary.co.uk](mailto:ggwilliam@copnorprimary.co.uk)

# Agenda

## ➤ The journey so far

- Position statement
- Success stories
- City wide STEM offer
- Digital Champion Programme

## ➤ DfE

- Connect the Classroom
- Standards
- Research/Case Study

## ➤ Next steps/Actions

## ➤ Q&A

# The journey so far: Position Statement

- ✓ 24 signs up for support (schools, trusts and SCITT)
- ✓ 11 schools already receiving support
- ✓ SCITT training planned to prepare new teachers with skills for entering Portsmouth schools
- ✓ TTS EYFS Project
- ✓ 15 Digital Champions in place from January 2022
- ✓ Redevelopment of Digital Drive Team and involvement of Shaping Portsmouth
- ✓ DfE Support and Direct Links
- ✓ Development of City-Wide STEM Working Party and Offer
- ✓ Primary Computing Leads Network Established
- ✓ SLAs in draft format
- ✓ Building on best practice across the city and developing into the next level e.g. technology to support the principles and rationale behind PIEQM

# The journey so far: Success Stories

- ✓ Shift to the Cloud projects
- ✓ Initial Discussions and Current State Audits
- ✓ Personalised Digital Strategies linked to SIP
- ✓ 365 Training
- ✓ Arbor Development and Training

## Vision Where do you see technology in your school in 1 year, 3 years, 5 years?

Pillar	1 Year	3 Years	5 Years
<b>Technology for children</b>	UTC to help develop the STEM room, technology for SEND and regulating pupils, development of the computing curriculum to ensure all skills are being covered, touch typing introduced, children able to take photographs and videos independently	Computing and IT skills are embedded into other areas of the curriculum where appropriate and add value to ensure the greatest impact and outcomes for all	Children have access to a range of technology, that they can use independently by choice in all areas of the curriculum – they know how to and are able to use the right tool, for the right activity for the right time safely.
<b>Technology for adults</b>	Screens for pre-school, using the iPads as visualizer and for modelling, move to Microsoft 365 and serverless (May 2023), basic IT skills for all staff to ensure they can communicate and collaborate effectively and efficiently (reducing workload), staff are introduced to the SAMR model, staff are introduced into ways to use technology to support accessibility and inclusion, Arbor for assessment, DPIA/GDPR compliance (ensure these are in place)	All staff are confident in using a range of technology to enhance and support teaching and learning, planning shows how technology is integrated into other areas of the curriculum so that there is a clear progression of skills, staff have access to a range of technology within and beyond the classroom. All staff are confident in how technology can support accessibility and inclusion	All staff are confident in using a range of technology to enhance teaching and learning, support accessibility and inclusion in a way that reduces workload and has the greatest impact for all.
<b>Technology for all</b>	Parent/carer workshops around Esafety, joining of the digital champion programme and computing network across the city, social media relaunch (Facebook), Sway newsletters, review communication, utilization of Arbor, reviewing the current use of external apps/programmes/software and the impact/outcomes in relation to cost	Review communication strategies and define the most effective platform/methods for the school	Parents/carers are able to communicate effectively, opportunities for parents/carers to understand how technology can support their child's learning at home.

## Arbor Parent App



Arbor



Either:

1. Check email for personalised link
2. Go to <https://login.arbor.sc/>
3. Download the Arbor app
4. Scan the QR code



Log in

ggwilliam@copnorprimary.co.uk

.....

[First time logging in?](#)

[Forgot your password?](#)

Log in

Trouble logging in? Click [here](#) for help

# The journey so far: Success Stories

- ✓ UTC Curriculum Support and Training
- ✓ Using Technology to Enhance Teaching and Learning
- ✓ Using Technology to Support Accessibility and Inclusion
- ✓ Computing Curriculum Development
- ✓ Computing Leads Deep Dive Support




UTC Stem Enrichment  
St Paul's Catholic Primary School  
2022-2023

Year Group	Focus/ Idea	Contacts	Logistics	Confirmed Dates and times
2	<p><b>Lego Programming</b></p> <p>This would be the hook for their computing unit on BeeBot.</p> <p>How to build something simple – program it Lego spike following through one of the units on Lego Spike – one of the simpler ones?</p>	<p><a href="mailto:Nicola_sawdy@st-pauls.portsmouth">Nicola_sawdy@st-pauls.portsmouth</a></p>	<p>@ St Paul's 40 children in total</p> <p>2 classes Ideally 1 afternoon each</p> <p>We have notebooks that can have access the Lego spike app website</p>	<p>24/4/23 start at 1pm</p> <p>27/4/23 Start at 1pm</p>



## Planning Example: Year 1

<p>2</p> <p>Write on the wall for Emily Brown. Write speech bubbles for Emily.</p> <p>Write speech bubbles for the queen.</p> <p>Read on the wall for the Queen.</p> <p>Comic: Beetle collage</p> <p>Calculate the PPT - audio</p>	<p>Sock Puppet</p> <p>Family favourite games/ toys.</p>	<p>Naming materials.</p>	<p>Design a lady/robot/ Dot.</p>	<p>Write - use a spider model template.</p> <p>Constructive - model characters from Emily and Stanley</p> <p>Reading - Share an Emily Brown story with a friend.</p> <p><b>QR codes to other stories</b></p> <p>Writing - use flipchart for adjective writing - Emily</p> <p>Singular Plural work</p> <p>CF - Sock puppet</p> <p>Maths - P in Maths</p> <p>Science - Materials and word sheet (cut and stick)</p> <p>Drag and drop games</p> <p>Quiz: <a href="https://www.bbc.co.uk/1/rev/57636236/27ar1ks1bryk/">https://www.bbc.co.uk/1/rev/57636236/27ar1ks1bryk/</a></p>
<p>Recording role on the wall whilst recording video on play back to help recap whilst working independently</p>				<p>Outside - maths dominoes</p> <p>Other - ICT - Design lady etc</p>



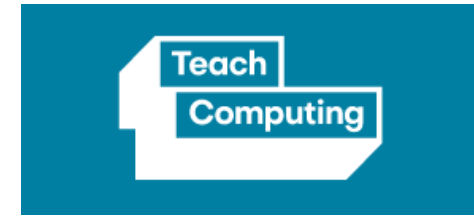
# The journey so far: City-wide STEM Offer

The Portsmouth STEM offer has been put together by a group of experts to support schools and colleges across the city with:

- Access to resources
- CPD/training needs
- Raising the profile of STEM
- Evaluating current computing curriculum, over and provision
- Developing leadership capacity in Science, STEM and Computing
- Providing opportunities for children/pupils from different school to collaborate and communicate e.g. British Science Week

So that together, we are improving outcomes for **all**.

***Next meeting 9.12.2022 then offer being published Wb 12.12.2022 inc. British Science Week***





# The journey so far: Digital Champion Programme

- Bespoke programme designed for Teachers and/or Senior Leaders – Portsmouth only
- Starting in January – launch event at Copnor Primary School on 10th January
- £13,000 investment opportunity funded by the apprenticeship levy (support available if no levy)
- 18-month training programme
- 3 weekly 2-hour virtual and/or face to face sessions delivered by Primary Goal, Microsoft, Google and other Ed-Tech Specialists. Delivered 3 pm - 5 pm.
- Work-based projects focused on the technology vision and priorities in your school (e.g. creating a Digital Strategy, developing the use of technology to enhance T&L/reduce workload, introducing new Computing Curriculum)
- Opportunities to achieve extra Microsoft accreditations (MIE, MIE Expert and Microsoft Showcase School) or Google Educator

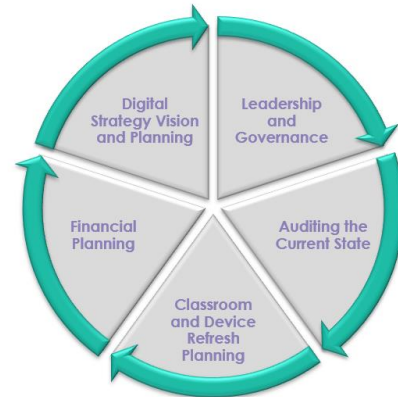


# The journey so far: Digital Champion Programme

## Digital Champion Programme Content

### Leadership and Governance

- Welcome Launch
- Understanding your organisation
- Keeping your school safe: GDPR, Data and Security
- Sustainability and Climate Change
- Technology for Coaching and Mentoring
- The Role of Governors



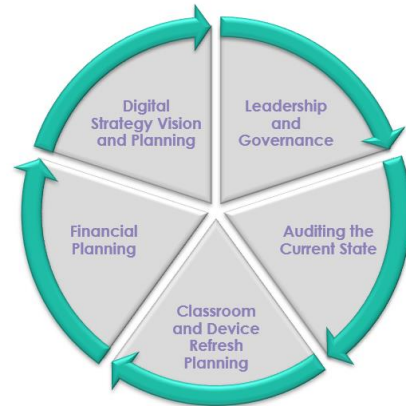


# The journey so far: Digital Champion Programme

## Digital Champion Programme Content

### Auditing the Current State

- Digital Systems and Infrastructure
- How to audit the current state within your school
- Microsoft/Google Accreditation

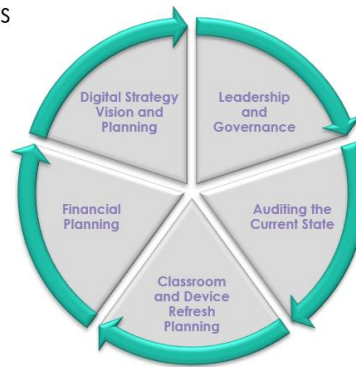


# The journey so far: Digital Champion Programme

## Digital Champion Programme Content

### Classroom and Device Refresh

- Technology for Children: Accessibility and Inclusion
- Technology for Children: Subject Area and Curriculum Integration (EYFS and Primary)
- Technology for Children: Subject Area and Curriculum Integration (Secondary and Sixth Form/College)
- Technology for Children and Adults: Assessment for Learning
- Technology for Children: Devices for Pupils
- Technology for Adults: Interactive and display technologies
- Technology for Adults: Explaining and Modelling Content
- Technology for Children: Home Learning
- Technology for Children: Technology within the Early Years
- Technology for All: Communication and Collaboration
- Technology for Children: Metacognition

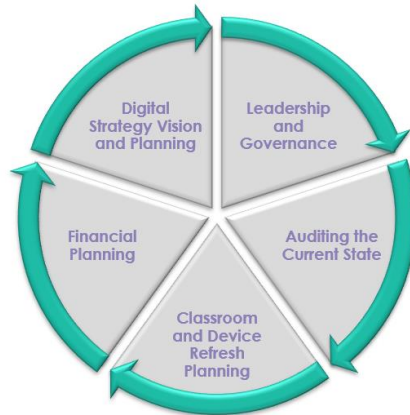


# The journey so far: Digital Champion Programme

## Digital Champion Programme Content

### Financial Planning

- How to budget and plan for your refresh options



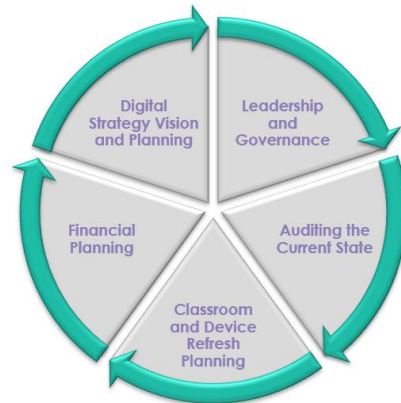


# The journey so far: Digital Champion Programme

## Digital Champion Programme Content

### Digital Strategy Visioning and Planning

- Introduction to Digital Strategy Planning
- Creating a Sustainable Vision for your School
- Implementing Change
- Reviewing and Developing your Action Plan



# The journey so far: Digital Champion Programme

## Digital Champion Programme Content

### Off the Job Training



#### DIGITAL CHAMPION PROGRAMME

##### HOW CAN I FULFIL MY 20% OFF-THE-JOB TRAINING REQUIREMENT?

#### KNOWLEDGE

- Attendance at virtual classrooms
- Completion of e-learning modules and activities
- Shadowing digital practice
- Independent research and development around digital technologies

You will evidence these through a variety of means including: tasks set, reflective accounts and professional discussions.

#### SKILLS

From the knowledge you will learn a range of new skills to embed into your daily role.

You will need to evidence these new skills in your work-based projects.

#### BEHAVIOURS

As a result of your knowledge and skills learning you will continually embedding digital practice into your daily role, you'll adopt new digital behaviours.

#### EXAMPLE WORK-BASED PROJECTS

- Teaching with new digital technologies and embedding them into lessons plans
- Manage your time, prioritising your digital support workflow to meet critical milestones
- Supporting peers and colleagues to use digital applications and embed new technologies into pedagogy
- Undertake basic data analysis utilising appropriate digital technologies
- Resolve digital issues using the appropriate tools and technologies
- Embedding technologies to improve productivity in your role e.g. marking and assessment technology tools

3





# The journey so far: Digital Champion Programme

- Funded (Sandra and Primary Goal supporting if don't have access to the levy)
- Digital Strategy Lead to support with development
- Project can be developing Digital Strategy/element of Digital Strategy and supported by the work with Gemma
- Builds and develops capacity
- Qualification and recognition at the end of the programme
- Network of Digital Champions across the city to support with sharing best practice
- Next cohort: Admin and Support Staff (April TBC)



**Only 10 spaces  
remaining for the first  
cohort!**

# DfE: Connect the Classroom – What is it?

- Connect the Classroom is a program funded by the Department for Education (DfE) that aims to help schools across the country to access an effective and comprehensive, education-focused wireless networking solution
- Piloted in 1100 schools
- Condition based (we meet eligibility as PEIA)
- Contracts managed by school not DfE
- **We are Wave 5 but have been given the opportunity to be fast tracked if we work together as a city ...**

## School Feedback


“This has been a fantastic programme for our school. We had planned to upgrade our Wi-Fi, but would not have had the same funding allowance to upgrade to the extent that we have, without this intervention”

“I can now plan for a full lesson and don't lose at least 10 minutes delay in students logging on.”

“Great programme that has allowed us to really improve accessibility to technology more efficiently.”

“The process was easy to follow and the team at the DfE were excellent. Really responsive and ease of communication.”

“We would love to further upgrade our IT, but don't have the funds...hence, this scheme was a wonderful bonus for us.”



Department for Education

# DfE: Connect the Classroom – Why should I do it?

- Improvements
- Condition based grant
- DfE Digital Standards

Basic terminology	What it is and why it is important
<b>Broadband</b>	Broadband is the high-speed internet connection. High quality connectivity will enable many of the school's day-to-day operations. It can provide opportunities to reduce costs and access better services. It will make sure that everyone using the internet in the school community does so in a safe and secure way.
<b>Wi-Fi</b>	Wi-Fi technology is a method by which a device can connect wirelessly to a network and/or the internet. There are countless teaching and learning, administrative and business reasons why your school needs good Wi-Fi and devices connected to the internet.
<b>Core Switch</b>	A core switch is a high-capacity switch generally positioned within the backbone or physical core of a network. Core switches serve as the gateway to a wide area network (WAN) or the Internet, so that you can use it to connect to servers, your Internet service provider (ISP) via a router, and to aggregate all of the switches. A core switch needs to be powerful enough and have significant capacity to handle the load sent to it, which means it should always be a fast, full-featured managed switch.
<b>Edge Switch</b>	An edge switch connects client devices, like laptops, desktops, security cameras, and wireless access points to your network.
<b>Wireless Access Point</b>	A wireless access point (WAP), or more generally just access point (AP), is a networking hardware device that allows multiple Wi-Fi devices to connect to a wired network.
<b>Wi-Fi 6</b>	The latest generation of WI-FI. Wi-Fi 6 has a greater capacity for connected devices, provides greater throughput for those devices and reduces power requirements.  With more devices, more connectivity and more core school functions dependent on Wi-Fi, the new features will be essential to provide seamless connectivity around the school.
<b>Cabinet</b>	A data cabinet, sometimes shortened to 'cab' is a server or a data storage cabinet that can be placed on the floor space to organise valuable IT equipment and data safely.  A cabinet is important to keep your networking equipment (eg Switches) safe and organised and is kept locked and secure.

# DfE: Connect the Classroom – Who should be involved?

Who	Role
Business Manager/Office Manager/Senior Admin Assistant/Bursar	Knowledge of procurement frameworks Current state audit Finance Policies/Procedures Admin
Digital Strategy Lead/Digital Champions	Links to School Improvement Plan and/or Digital Strategy Knowledge of impact of wifi on T&L
IT Network Manager/Technician	Knowledge and review of infrastructure Advice on procurement

# DfE: Connect the Classroom – Actions and Time Frame\*

Wb  
14.11.2022

- Ensure DfE have correct contact details for Digital Strategy Lead (main point of contact)
- Inform Digital Strategy Team and share guidance information
- GG to meet with Ben and confirm ready to proceed

Wb  
21.11.2022

- Digital Strategy Lead completes initial survey (may need support from BM/IT/Head)
- Digital Strategy Team discuss current issues and plans for the future linked to Digital Strategy vision
- Optional Information Meeting for Heads, Business Managers/Finance Lead and Digital Strategy Leads  
**25.11.2022 14:00 to 14:30** – join [here](#)

Wb  
28.11.2022

- Network Managers/IT Technician to start completing **Network Asset List**
- Optional Network Manager/IT Technician webinar **28.11.2022 12:30 to 13:00** – join [here](#)
- Optional Network Manager/IT Technician webinar **1.12.2022 15:00 to 15:30** – join [here](#)

Wb  
12.12.2022

- All Network Asset Lists submitted to the DfE before the Christmas holidays if possible

\*Subject to change dependent on the DfE and early release of Wave 5



# DfE: Connect the Classroom – Other Notes/Information

- When going through procurement framework, must say “Connect the Classroom Project”
- Manufacturers are offering protected supply chain, preferential pricing and 10 years for the price of 5 on warranties
- Can look at one company to do the whole city but would need city-wide procurement
- If schools struggling with who to reach out to, look at the bigger companies
- All claims by February 2024 – the sooner the process work can actually be done within the 6 “holiday windows” from January 2023 to February 2024
- The grant is condition based, i.e. they look at the school’s Network Asset Form to assess what schools currently have, and based on the condition of the wi-fi estate we make an eligibility judgement. Age does come into play but so do a few other factors (warranty, technical capabilities etc). plan ahead for the future (especially if looking to increase use of technology)

# DfE: Standards

## Meeting digital and technology standards in schools and colleges

From: [Department for Education](#)

Published 23 March 2022

Updated: 10 October 2022, [see all updates](#)



### [Broadband internet standards for schools and colleges](#)

Find out what standards your school or college should meet on connection type, connection speed, resilience and safeguarding.

### [Network switching standards for schools and colleges](#)

Find out what standards your school or college should meet on switch performance, management, security and resilience.

### [Network cabling standards for schools and colleges](#)

Find out what standards your school or college should meet on copper cabling, optical fibre cabling and installation.

### [Wireless network standards for schools and colleges](#)

Find out what standards your school or college should meet on wireless network performance, coverage, management and security.

### [Cyber security standards for schools and colleges](#)

Find out what standards your school or college should meet on cyber security, user accounts and data protection.

# DfE: Research/Case Study

- ✓ Digital Champions on programme trialling new DfE audit tool
- ✓ Development of ITTs Case Study with Portsmouth SCITT
- ✓ Development and use of Digital Champions Case Study
- ✓ City-wide approach to Digital
- ✓ Input into Digital Standards

# Next Steps/Actions and Q&A

- Digital Champion (?)
- Initial Support/Visit
- Connect the Classroom

## **Gemma Gwilliam**

Head of Digital Learning, Education and Innovation  
Strategic Lead for PEP Priority 2

[ggwilliam@copnorprimary.co.uk](mailto:ggwilliam@copnorprimary.co.uk)

## **Ben Thompson**

Education ICT Adviser | Technical Standards | Capital  
Directorate | Operations Group

[ben.thompson@education.gov.uk](mailto:ben.thompson@education.gov.uk)

## **Lauren Delday**

Head of Business Development

[lauren.delday@primarygoal.ac.uk](mailto:lauren.delday@primarygoal.ac.uk)