Tom Trueman

ICT Teacher/Business Manager

St Joseph's Catholic & Anglican High School

Apple Learning Institute 2021

Workbook

Aspire 2Be.

Professional Learning Provider

About the Apple Learning Institute

The Apple Learning Institute is a professional learning experience for educators. It focuses on using the inbuilt features of Apple devices, Apple apps and Apple Education resources to enhance and improve teaching and learning. The purpose is to develop Apple Learning Leaders who drive digital development and change in their school or organisation with a clear vision, whilst supporting colleagues in developing their digital skills. Upon successful completion of an Apple Learning Institute, you will be recognised as an Apple Learning Leader.

Expectations

- Engage
- Complete the Learning Technologies Survey (LTS)
- Create an implement a Digital Action Plan (DAP)
- Present a 10min reflection outlining findings and next steps, including:
  - Image/audio/video
  - Use any Apple tool
  - Contribute
  - Collaborate
  - High quality materials

Objectives

✦ Understand the qualities and behaviours of culture, teaching and learning excellence

✦ Analyse current organisation approach to ‘digital’

✦ Create professional learning implementation plans (DAP) for your organisation

✦ Engage in a range of activities to use with staff

✦ Develop strategies to promote the concept of a ‘learning organisation’

✦ Understand how Apple technology can support organisation priorities

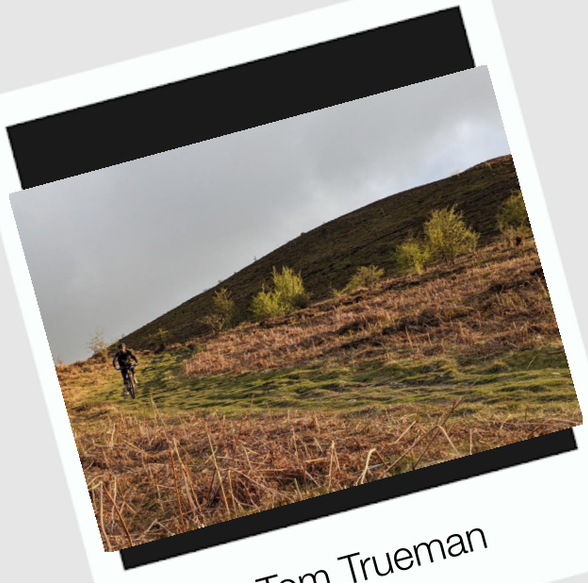
✦Enhance awareness and usage of Apple program resources for professional learning.

What is an Apple Learning Leader?

*"Apple Learning Leaders are **mentors and guides** within their school. They value the role of technology in **reaching all learners** and foster **innovation** in learning and teaching. They support and enable **sustainable change** across their organisation."*

Pre ALI Activity: All About Me

Please complete this activity before the Apple Learning Institute commences, so we can find out a little bit about you. You can complete it using MarkUp, or by inserting text boxes, or audio clips - the choice is yours!



Name: Tom Trueman

Role: ICT Teacher
Business Manager

Organisation:
St Joseph's Catholic & Anglican High School

Favourite App:
Garage Band

Aims for ALI:

- To be able to use my IPad as my main device in the classroom
- To be able to connect to classroom devices to share resources
- To find out further and hidden features with Apple applications that are free to use.

Fun Fact:
I was part of a world record attempt.

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After Session 1: SWOT Analysis & DAP Focus Area

Activity 1: Reflection

Take a few minutes, and reflect on what we covered in Session 1. Consider the following:

- What is the current culture within your school? Why?
- What are the barriers to change within your organisation?
- What can you tell us about perspective, when it comes to driving digital change?

Position your audio recording here!

Activity 3 : Identify DAP Focus Area

Consider your SWOT Analysis. Which area will you focus on in your DAP, and why? Insert a text box, or record your thoughts using 'insert audio'.

Position your audio recording here!

Activity 2: SWOT Analysis

A SWOT Analysis is a simple tool to help you develop your digital strategy. It is a strategic planning tool to structure a focussed exploration into the factors affecting your organisational development. Your findings should inform your approach to making your Digital Action Plan (DAP). Complete this SWOT Analysis of your current approach to technology in your school or organisation.

STRENGTHS	WEAKNESSES	OPPORTUNITIES	THREATS
Investment in pupil devices and a good mixture between windows and apple.	Network limitations due to access points not capable of working at its full potential when all devices are in use	The Covid pandemic has speeded up the implementation of Google Classroom in all departments across the school.	Opportunities for the pupils to use Ipads and certain applications may be threatened if another lockdown happens.
Recent upgrade of all teacher laptops and IPads, so the iPads are capable of being used with an Apple Pencil.	The Ipad network is restricted by our Local Authority, which limits the potential use of the Ipads.	The Covid pandemic has also opened up new ways of teaching using technology and in particular using your iPad as your sole device in the classroom.	Future budget cuts to pay for the Covid pandemic could affect educational spending and therefore upgrading and purchasing new technology. This could be devices or software.

Activity 2: SWOT Analysis (CONTINUED)

STRENGTHS	WEAKNESSES	OPPORTUNITIES	THREATS
All teaching Staff now have an Apple Pencil.	Some staff initially resistant to changes in technology.	Being able to use the Ipads for registration with the investment in the Sims application and also cloud based room booking and parents evening applications have increased flexibility and can be arranged on the move and in any location.	Too many applications and new pieces of cloud based software may be confusing for the pupils.
Investment in Promethean interactive screens in every classroom that are compatible with AirWatch and can display pupil and teacher work.	Currently going through a transition phase from one Apple device management system to another, which is causing issues downloading new applications.	Not as reliant on the schools network, due to new working practices using cloud based software.	Integration of certain applications with Google Classroom. If they do not offer integration directly, it may be confusing for staff and pupils to work around.
Rolling five year upgrade plan for all devices to ensure the technology is kept up to date.	A trolley of Ipads can no longer be upgraded to the latest IOS, so will need to be upgraded soon.	Online learning has allowed staff to experiment with new applications and teaching experiences.	Staff resistant to using Ipads and application within their teaching.
Investment in new software and applications to assist with teaching and learning.		New curriculum for Wales being introduced in 2022, so an opportunity to integrate technology from the start.	
DCF group meet frequently to discuss how the school should move forward with technology.		Staff all have an Apple device, so there are opportunities for staff training in certain applications.	
		Training opportunity to up skill staff in using the devices confidently in the classroom.	

MORE PAGES MAY BE ADDED AS WE PROGRESS THROUGH THE SESSIONS

After Session 2: We Believe... and DAP Intended Outcomes

Activity 1: Reflection

Take a few minutes, and reflect on what we covered in Session 2. Consider the following:

- How have schools changed over time?
- What should learning look like?
- Any other key takeaways from the session.

Position your audio recording here!

Activity 3 : DAP Intended Outcomes

Consider the Intended Outcomes for your Digital Action Plan. Use the results of your SWOT Analysis to inform the selection of your Intended Outcomes. Once you have decided upon them, scroll down to the 'Intended Outcomes' section of your DAP, and enter them into the correct field.

Activity 2: Statement of Learning

Use the space below to communicate your 'statement of learning' (The statement you created using your key words of what learning should look like). You can use MarkUp, or insert a text box, or audio clip.

Create curious thinking and develop creative learners through engaging experiences. Empower pupils to take ownership of their learning and be collaborators within the classroom, and to be resilient in an environment where they are able to fail.

Apple Education produce high quality resources created by teachers, for teachers. The projects in the Everyone Can Create guides teach students to develop and communicate ideas through video, photography, music and drawing. And they help ignite creativity by giving teachers fun and meaningful ways to bring these skills into any lesson, in any year group.

Use the space below, to note down any potential resources (Apple or 3rd Party providers) you could use, to support and inspire colleagues in their CPD.

- Sphero's
- BBC Microbit
- Lego Spike Education

After Session 3: Learning Technology Survey & Draft DAP

Activity 1: Reflection

Take a few minutes, and reflect on what we covered in Session 3. Consider the following:

- How does your organisation share learning and grow?
- How does your organisation learn to use technology?
- How does your organisation collaborate?
- What structures or strategies do you use to provide time and opportunity?

Position your audio recording here!

Activity 2 : Register for the LTS

Please consider registering your school for the Learning Technologies Survey.

It is designed to provide insight into learning and teaching practices related to technology at your school. Results from the survey can help you design professional learning goals, understand faculty perceptions of technology and identify instructional opportunities that deepen student learning.

Activity 3: Produce a CPD Demo for Colleagues

Please insert the screen recording demo you made in Session 3 in this section.

Then, watch it back, and consider the following:

- the language used
- clarity of instructions
- what you might improve in the future

You can record audio, insert a text box, or use Apple Pencil to write it - the choice is yours!

Position your audio recording here!

https://share.icloud.com/photos/00NWwEgz0vtWpPB3JHzmMBHig

Victoria’s demo

After Session 4: Finalise DAP & Create Feedback Keynote

Activity 1: Reflection

Take a few minutes, and reflect on what we covered in Session 3. Consider the following:

- Learnt about the Apple Learning Survey and set up our own following the session.
- Great ideas from the session to use for our own demonstration videos using Apple applications and focussing on an application of our choice.
- Great discussion on how to share teaching ideas and collaborate with colleagues. It made us focus on the areas of working collaboratively we are good at and how we can improve other areas such as sharing experiences using iPads as a teaching tool to deliver lessons rather than an extra device for setting assignments and marking.
- The session also allowed us to write our draft DAP and how we can focus on the key areas of introducing new ways to teach coding using new applications and then ways in which we can incorporate these into the new curriculum at KS3.

Digital Action Plan (DAP)

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FOCUS AREAS

- Up skill staff to become apple teachers
- Upgrading the infrastructure to allow more pupil devices to connect
- to promote coding for girls to make links with maths and ICT. Using the swift playground application, the pupils will complete the coding programme and make videos using iMovie.

WHO IS THE INTENDED AUDIENCE?

- Teaching staff in regards to training for apple teacher
- MAT female pupils in year 8
- All staff and pupils will benefit from an improved network.

PHASE 1 OVERVIEW (Short Term)

➤ Staff to complete Apple learning survey.

➤ Identify 8 female pupils who are MAT in Maths and IT and set up 3 sessions on learning to code.

➤ BBC MICRO BITS - Use Python coding through Apple Swift Playgrounds and BBC Micro Bit app to make animations and display messages.

➤ LEGO - use the Lego Education Spike app to understand how motors and sensors can be coded, using blocks, with Lego.

➤ SPHERO - use the Sphero Edu app and Apple Swift Playgrounds to control Sphero Bolt and RVR, using Javascript code.

- Session 1 BBC MICRO BITS

- Use Python coding through Apple Swift Playgrounds and BBC Micro Bit apps to make animations and display messages

Pupils were asked to work through Introduction to BBC Micro Bit on Apple Swift Playgrounds. Firstly, to connect the BBC Micro Bit to their iPad, then to edit a code to display an image and text. They successfully made the images and text. They then went onto BBC Micro Bit app

and coded a flashing heart animation.For homework they were asked to create their own animation.

- Session 2 LEGO

- use the Lego Education Spike app to understand how motors and sensors can be coded, using blocks, with Lego

Pupils split into 2 groups. One group on Lego activities, the other on using Micro bits to play rock, paper, scissors.

Very successful session, pupils enjoying understanding how the sensors worked on the Lego and changed some variables to get the code to react to different colours.

Rock, paper, scissors was also successful and pupils added in sounds and different images in the code.

- Session 3 SPHERO BOLT and RVR

- use the Sphero Edu app and Apple Swift Playgrounds to control Sphero Bolt and RVR, using Javascript code

This session required the pupils to understand how to change the variables in a code to control the distance and speed the Sphero travelled. They used Sphero Edu app and played a game of curling. They successfully changed the variables within the code and reading the graphs to decide how long to shake the Sphero for, to set a distance.

During this session we also had a successful relay race which used the Sphero to find the average speed of each runner and the total time taken.

PHASE 2 OVERVIEW (Medium Term)

- Invest in two new class sets of iPads for the RE and Maths/ICT department - 60 devices in total.
- Train at least one member of staff from each department, so they can achieve Apple Teacher status.
- Ensure that the screen sharing capabilities of our Promethean interactive boards are fully utilised.
- Arrange a special ICT/MATHS coding day incorporating the skills learnt during coding club. The 8 MAT learners who took part in the coding club will also be Digital Ambassadors on the day.

Opportunities

- Will ensure seamless sharing in class for teachers and students - Smart share app or Screen Mirroring?
- Once one member of staff from each department is trained as an Apple Teacher, they will then be able to train the other members of staff within their department to be Apple Teachers.

Threats

- Issues with IP addresses and broadband with RM, increased devices mean we need to deploy a wider IP range with will ensure good accessibility in school. The structure of the IP's need to be tidied up whilst doing this. We will liaise with our Local Authority to ensure that the screens are set up correctly and on the correct network.

PHASE 3 OVERVIEW (Long Term)

- ➤ Liaise with local authority to improve the schools WiFi and access to Apple apps
- ➤ All remaining teachers to become Apple Teachers
- ➤ Invest in a class set of Sphero's and incorporate the coding club activities into the ICT and Maths Curriculum at KS3

Opportunities

- To improve the coverage and stability of the schools WiFi network.
- To use iPads as the main teaching tool in the classroom.
- To create new resources using the Apple suite of applications.
- To incorporate practical real world examples of coding using Sphero's.

Threats

- The use of more devices may have the opposite effect and cause further issues with the school network.
- Teaching staff do not engage well with the Apple teacher training and may have the opposite effect.
- Further advances in technology may result in the new devices being out of date and further investment required.
- Future budget cuts may make it impossible to invest in new technologies.

INTENDED OUTCOMES

- To encourage more girls to consider careers in STEM.
- To use Swift Playgrounds to replicate real world scenarios.
- To use a variety of different Apple applications to plan, carry out the task and record final result.
- To allow greater collaboration between departments and in particular the Maths and ICT departments.
- Improved network coverage throughout the school.
- All Heads of Department to achieve Apple Teacher status by Christmas.

CONSIDERATIONS

- New curriculum being introduced in Wales, therefore opportunities to build coding into the curriculum.
- Budget constraints may restrict the amount of devices purchased.
- Liaise with the Local Authority to discuss network requirements.

Timeline & Activity Breakdown

ACTIVITY	DESCRIPTION	WHEN? WHO?	HOW DOES IT MEET YOUR NEEDS?
Complete Apple Learning Survey	Apple Learning Survey sent out to all staff to complete.	June 2021 - Sent to all staff.	To find out how Apple products and applications are used within the school and the teachers perceptions of technology.
Coding Club	Coding club held after school for 8 MAT learners within maths and ICT.	June 2021 - coding club held over three weeks within June focussing on block, python and JavaScript coding.	We can look at new ways to teach coding within the classroom in KS3 and then look at how we can incorporate this into the curriculum.
Infrastructure	Liaise with the Local Authority to improve the schools network and specifically the WiFi coverage throughout the school.	June to September 2021 - The initial survey of the school will be carried out in June to establish were extra access points should be situated with the view to completing the works during the summer holidays.	Improved coverage throughout the school, which will enable us to purchase and use more pupil devices within the school.
Apple Teacher	Train heads of departments on Apple applications, so they can undertake the Apple Teacher program.	September to December 2021 - Heads of Department.	Once the heads of department are trained and have achieved Apple Teacher status, they can then train the remaining staff within their department, so we can achieve the status of every teacher being an Apple Teacher by August 2022.

ACTIVITY	DESCRIPTION	WHEN? WHO?	HOW DOES IT MEET YOUR NEEDS?