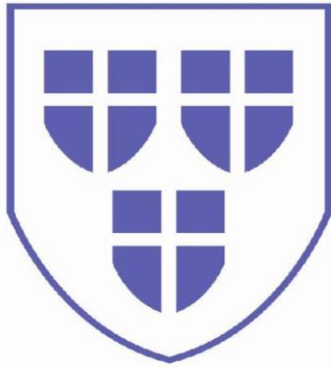


Mobile Learning Scenarios

Developing mobile devices use among staff and students

Edenham High School

Cross Curricular



Edenham High School is a large inner city London school. Students come from hugely diverse backgrounds. Currently just over half of our students come from ethnic minority backgrounds, mainly black African and black Caribbean. Also the economic background is very mixed with a third of the students currently on FSM. However personal mobile device use appears to be running at near to 100%

The study will focus on all students in KS4 who are preparing for formal examinations.

Description

The basis of the research project is to develop staff ability to incorporate standard applications and mobile devices into lesson planning. Through implementing this change in culture successfully we hope to generate a response from students to use their devices effectively at home to aid their learning and promote problem solving solutions to include research and creative practises harnessing the potential of the devices they carry on a daily basis.

Learning outcomes

The students can...

- understand the system life cycle and give first hand examples of each stage
- design and develop an app / web app
- identify important aspects of unit specifications and learning goals
- understand different learning styles and identify appropriate web tools to support their learning
- work effectively as a team and understand the importance of collaboration in the real world

Preparation

Staff Audit of mobile use in classroom: Using survey monkey to develop a coherent analysis of current use within the school as a baseline assessment of existing ways in which teachers use mobile devices in lessons, both through planning and 'ad hoc' approaches.

Student Audit of mobile use in classroom: Using survey monkey to generate a basis of how students use mobile devices within their lessons and at home to assist with their work. Also to establish the types of mobile devices and apps students have in their requisite and the innovative ways they may already be using them.

Change of school mobile device policy: Incorporate a change in policy to allow staff to use devices in lessons, with the onus being on the demand from the teacher rather than the student. Provide support for staff in ensuring they feel confident to manage this change in approach

Realisation (step by step)

Development of lessons using planned approaches to mobile devices as a learning aid, according to subject specialisms:

Subject: PE

Use: Video Analysis App: Dartfish, CMV, Coach's Eye, SloPro, Quicksan.

Aim: To enable students to improve their sports skills & develop analytical skills through annotated visual communication.

Subject: Music

Use: Video Tutorials

App: YouTube, Edenham TV

Aim: For students to act independently in developing their musical skills

Subject: Modern Foreign Languages

Use: Voice recording and dictation

App: Voice Recorder, Dragon Dictation

Aim: To assist students develop speaking and listening skills in a second language

Subject: Health Related Fitness

Use: Creating online video

App: camera, iMovie, YouTube

Aim: To create a presentation of the lessons aims and post video online to share with the school community.

Subject: Maths

Use: Help find bearings

App: Compass, calculator

Aim: To provide students with a practical maths lesson on the finding of bearings and navigation

Subject: Art

Use: Research & Archiving

App: Evernote, Pinterest

Aim: Gather research material and archive and annotate artwork

Whole school approach and changes in policy:

Subject: School Trips

Use: Creating memorable images & videos for students of their time abroad.

App: Blogspot, camera, iMovie, YouTube

Aim: The blog is used to provide parents updates of the trip whilst it is happening and create an archive of memories of the trip itself. Students share their pictures & videos

Subject: Homework

Use: To use mobile devices as a tool to organise and complete homework

App: Show my homework, students own choice.

Opportunities

Through conducting this research project there has been a marked uptake in planning lessons incorporating mobile device use. This has been effective in engaging students and their levels of progress. Students are more likely to use their devices constructively at home both to organise themselves and to work independently and the majority of staff are occasionally or regularly generating innovative ways to use devices in lessons.

Challenges

To cement this practise into the culture of teaching and learning opportunities for mobile device use should be built into schemes of work. For further progress the use of devices should be student rather than teacher led. We can achieve this by teachers leading the use of devices in lessons to build student knowledge in the first instance and finding an appropriate time to create an open climate of use in their lessons. It would be effective to create a team of digital leaders in each year group who can demonstrate imaginative good practise to staff and students alike. Investment into mobile devices such as tablets would be beneficial. Providing this equipment to classes along with connectivity with the school network would enable further uptake by staff and students.