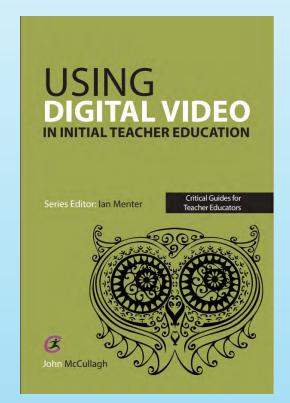
Having the best of both worlds Using Digital Video in Initial Teacher Education

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'Digital video technology has much to offer initial teacher education (ITE), both through the technological affordances it brings to the study of teaching and from its potential to mediate the collective construction of knowledge.' (p. 1)





Initial Teacher Education (ITE) is challenging because

- Pre-service teachers bring their own perceptions of 'good teaching' and their beliefs and values regarding education
- To the untrained eye, teaching can seem straightforward- its craft can be subtle and often hidden. Its complexity can be overwhelming.
- Tutors have little control of the experiences which their students are exposed to.





Three key concepts for understanding the pedagogies of practice in professional education

Representations of practice

-activities which make practice explicit and learners more mindful of its elements.

Deconstructions of practice

-breaking down classroom footage into smaller units of action and thought

Approximations of practice

-activities which take place away from the professional setting.

(Grossman et al, 2009)



Representations of practice

By providing a shared experience across a range of diverse classrooms and teaching scenarios video unearths assumptions and challenges mindsets.

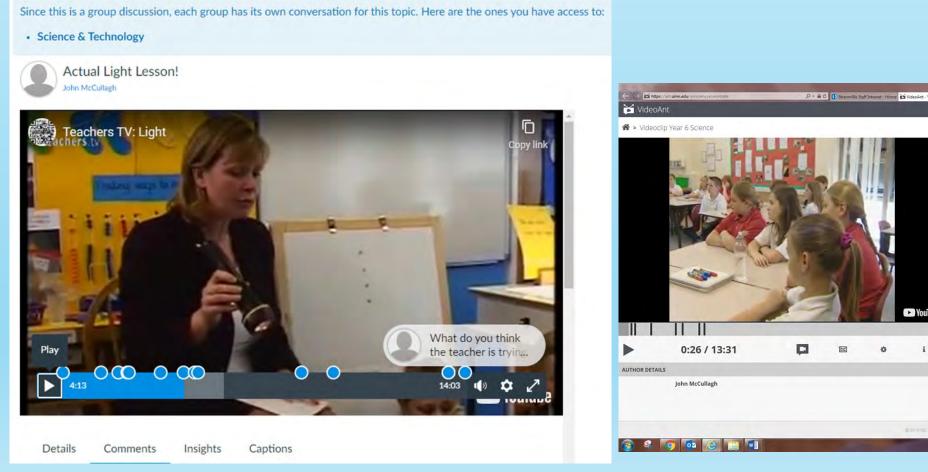


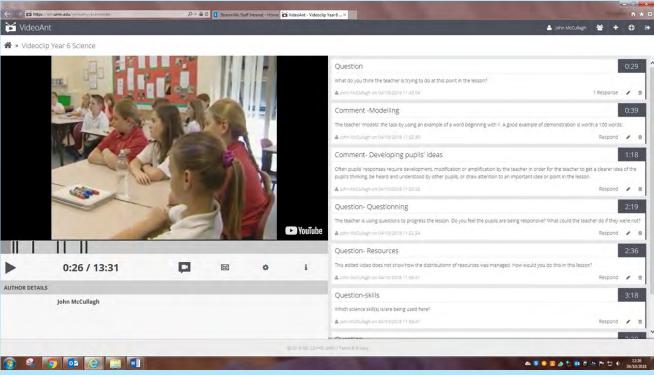




Deconstruction of practice

Video annotation provides situated guidance. Questions can provide a narrative of enquiry and access the learner's thinking, assess progress and begin to model lesson evaluation.





Approximations of practice

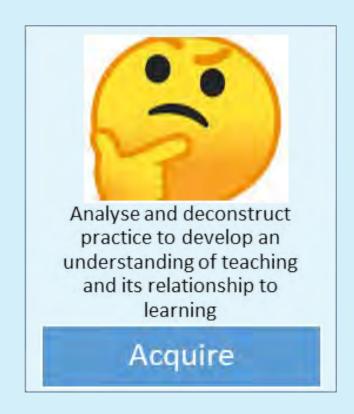
Activities reduce complexity of the planning, teaching and evaluating. Microteaching - scaffolds the progression to enactment of practice. Draft a lesson plan or a lesson evaluation based on a video.





Digital video provides **both** the **resource** and a **means** to......





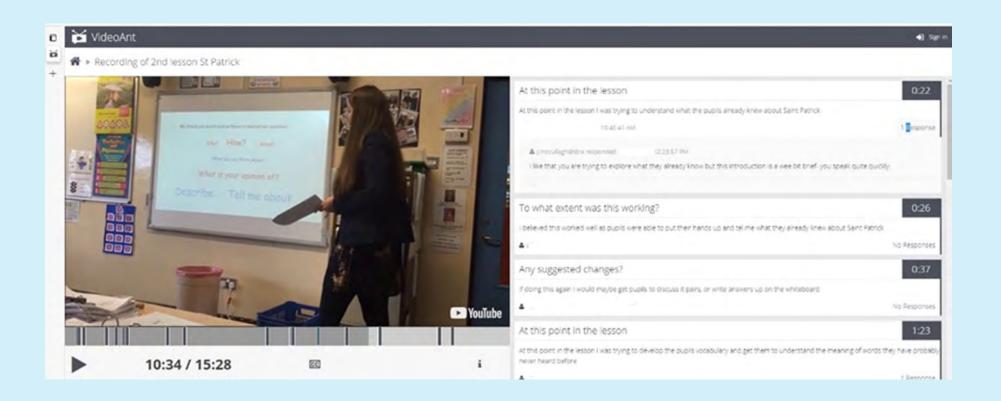


Digital video provides teacher educators with the means to capture and present practice with its complexity unravelled, yet its detail and its authenticity preserved.

Interacting with video and Active Learning

Though it is difficult to provide a specific description of active learning it is considered to have three distinct dimensions: (Prince, 2004; Watkins et al, 2007)

- 1. behavioural- the active deployment and the creating of resources and learning materials,
- 2. cognitive-deliberate thought about experiences in order to construct knowledge,
- 3. social- learning through talk during a <u>collaborative resource-orientated task.</u>



Modes of Interaction

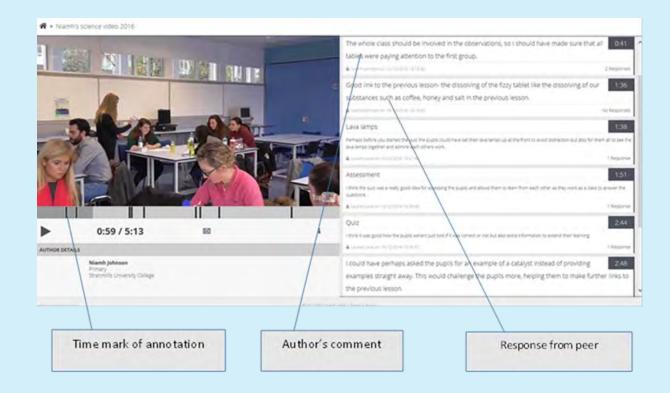
Video Annotation

This can serve provide the learner with

a viewing guide

a tool for self-analysis

Detailed feedback from tutor.



Video Editing

Greater control over which clips to include and what comments they want to make. It allows PSTs to accurately recount the story of their personal experience of teaching. For both teller and audience, story-telling can be compelling and emotionally engaging allowing an individual to reshape, reassess and reconstruct events and create the possibility for change and growth (Williams et al, 2006).

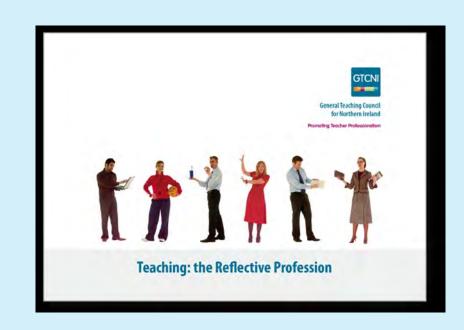
The Challenge of Reflection

Despite its importance within ITE reflection can seem.....

- vague and abstract
- rooted in the past
- of limited value

Reflecting limited by

- limited time and opportunity during placement
- competing priorities
- the format for reflection





DEVELOPING REFLECTIVE PRACTICE LESSON ANALYSIS FRAMEWORK



Annotation provides access to student thinking

Scaffolds the process of analysis



Curlett, Olivia 4 months ago Delete

1. Opening 00:08

Explain

Explain: My lesson was for a Primary 3 class on the topic of 'Floating and Sinking'. To introduce the lesson, I asked the pupils to reflect on the book we had read together the previous day called 'Who Sank the Boat' by Pamela Allen. I also introduced the investigation the pupils would take part in by reading a letter from Pirate Pete.

Assess: My tone during the opening was enthusiastic and confident, and helped to capture the class's attention. I tried to get the pupils to recall for themselves as much information as they could from the previous day through effective questioning, rather than me relaying the information. I spoke clearly and the language I used with relation to floating and sinking was suitably tailored for a P3 class. The book I chose was highly suitable for this lesson; it focuses on the theme of floating and sinking, and it gets pupils to think scientifically; the book does not reveal to the children what animal is responsible for sinking the boat, but rather gets the pupils to solve this puzzle using their knowledge of why things float and sink. To engage the pupils and give the lesson a sense of purpose, I read a letter I had received from Pirate Pete that had a task for

them to complete.

Modify: In order to make the opening of my lesson more effective, it would be beneficial to gather the pupils together in the carpeted area at the front of the class; together we could look at the book again, but I would ask the pupils what is happening in each picture; they would become the narrator. In addition, I would send the pupils back to their tables and get them to discuss with their table partner why the boat sank or who they think sank the boat; this would have helped pupils' understanding of the book, and also helped them to develop their ideas and be more prepared to give an answer. It would build their communication skills and ability to work with others. Also, alongside the letter from Pirate Pete, I would use a puppet; questioning pupils using a Pirate Pete puppet may have encouraged pupils to contribute and also think about the questions more carefully.

Read Less

No more comments

Assess

Modify

Developed from Amobi's (2005) rubric for written reflections.

PSTs use analysis framework before and during school placement.

School

During pre-placement visit to school, PSTs observe lessons and discuss future science lesson with host teacher.

ITE Institution

With support from tutor and a peer, each PST plans and microteaches a short section of lesson to peers.

PSTs use the '3Q Lesson Analysis Framework' within Office 365 Streaming App.

Lesson plan is modified based on feedback from tutor and peer

School & ITE Institution

Teach full modified lesson during day visit to school.

Evaluate lesson from memory using analysis framework and receive feedback from host teacher.

Share and discuss written evaluation with tutor and peer.

School

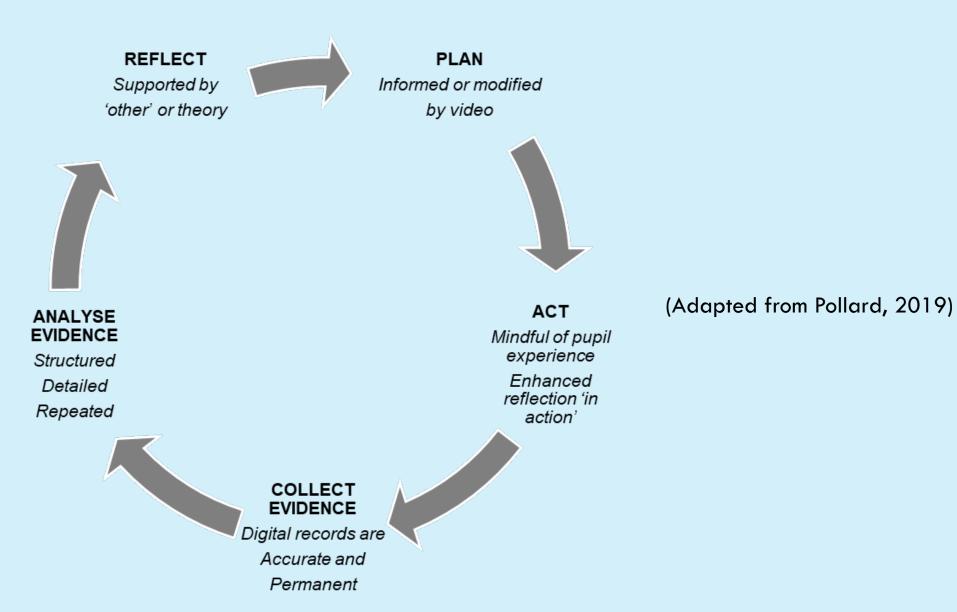
Teach another science lesson during placement.

> Use analysis framework to evaluate

Feedback from host teacher and discussion with tutor

Continuity and progression of experience of reflection

Video Supported Reflection



How can the use of digital video inform practice and structures within ITE?

From their study of effective ITE programmes, Korthagen et al (2006) identified seven 'fundamental principles' across the following three key components.

- 1. Views of knowledge and learning- something which is created
- 2. Program structures and practices- centred on classroom practice which is collaborative and exploratory
- 3. Quality of staff and organisation- strong partnership between ITE institutions and schools.

Their prescription is consistent with Darling-Hammond's (2006, p 1) view that twenty-first century ITE programmes should prioritise 'extensive and intensely supervised clinical work integrated with coursework using pedagogies linking theory and practice, and closer, proactive relationships with schools.'

Digital Video can provide a 'third space' where PSTs can explore and develop their practice.

Video Enhanced Learning Environment

PST learning supported by...

Collaborative engagement with edited and annotated video.

Evaluation and modification of microteaching experiences.

Video-based reflection on classroom teaching.



ITE tutors, teachers, and PSTs share video resources.

Tutors and teachers collaborate to create video artefacts.

Tutors' and teachers' knowledge exchange supports each other's ongoing professional development and extends the knowledge of the learning community



ITE Institution

PST learning restricted by.....

Asynchronous experience of theory and practice.

Theory not always situated in practice.

Limited opportunities to enact practice and weak scaffolding.

Limited access to diverse classrooms and teaching scenarios.

School and Classroom

PST learning restricted by.....

Challenge of learning while attending to pupils' needs.

Often isolated from peers with focus on individual assessment.

Lack of time for reflection, modification.

Culture focused more on maintenance than exploration.

Above all else, digital video empowers teacher educators to respond to Dewey's condemnation of 'teaching by pouring' and 'education by telling', by providing the resource and the processes for the construction of understanding and the development of professional agency.





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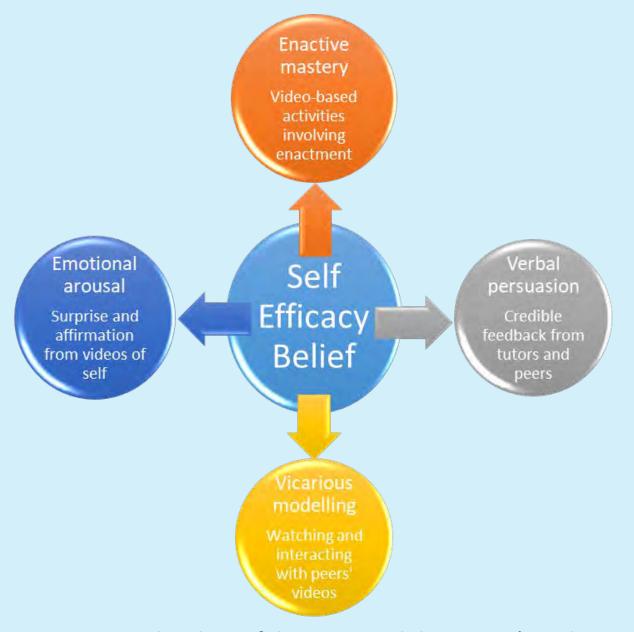
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<u>Using Digital Video in Initial Teacher Education</u>



Interacting with videos of their own and their peers' teaching enhances pre-service teachers' self-efficacy belief

