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RESEARCH RATIONALE / BACKGROUND

- Lack in work ethic.
- Lack of motivation.
- Boys today are born into a digital age – “Is our pedagogy relevant?”
- Need to harness the digital technology at our disposal, even if it does mean taking a step or two out of our comfort zones.



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RESEARCH RATIONALE / BACKGROUND

In 2014 **Maritzburg College** launched two iPad pilot classes. These pilot classes give me the opportunity to embrace the ‘maker world’.

- The revised Bloom’s Taxonomy points out that creation is at the highest order of learning.
- ***“New digital tools available to students have flung open the doors to creativity, imagination, and student directed learning.”*** ([Donaldson](#), 2014).
- The ‘maker world’ allows educators to zone in on this creativity by allowing learners to learn in an exciting way by creating and making.



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RESEARCH QUESTION

App-Smashing



Create
content
with one app
export to the
camera roll

Add a layer of
ideas in a
second app, or
third, or 4th!

Upload,
Publish, &
Share

PARTICIPANTS

I used one of the pilot iPad classes which consisted of 25 boys. I



RESEARCH ACTION

- Digital Tutorial
- Reflection – iMovie
- Interviews
- Online Survey

DATA COLLECTION

- Survey questionnaire using survey monkey was completed by each boy.
- Observation
- Individual interviews were conducted.
- Boys made a 1 minute iMovie recording their reflections on making the digital tutorial



Clip - Findings

<https://drive.google.com/open?id=0B2Gj8s7B8Ma8LU44bkNEdGx5Vnc>



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Key Findings and Discussion



- A deeper understanding of geometric concepts was reached – the iPad allowed boys to source information from a variety of websites and YouTube videos. They were not confined to a textbook. Teaching the concept improved their understanding of the content.
- Using the iPads increased motivation – the project stimulated and motivated boys to show off their creative and technical skills.
- The iPad is a powerful learning tool – the various apps used (app smashing) in the making of digital tutorial makes the iPad a powerful learning tool for research, creation, collaboration, and learning.



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Conclusion

- Loveless (2002:15) considers digital technologies as a tool useful for “developing new ideas, making connections, creating and making, collaboration and communication, and evaluation”.
- It is clear from the findings that creating and making a digital tutorial on the iPad stimulated motivation within the boys, helped them gain a deeper understanding of the concepts, and allowed them to communicate their tutorials with their fellow learners (shared creation and collaborative learning). Creating a digital tutorial on geometric concepts shifted the boys’ mind-sets of maths being laborious and tedious at times, to creative and exciting. We, as teachers, need to embrace the making process to stimulate creative and exciting learning opportunities.



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REFLECTION

<https://drive.google.com/open?id=0B2Gj8s7B8Ma8U2VaUjc3d3BCRXM>

