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Overview



Learning Gains through Play



Learner-centred leading to learner-driven



Accelerated by innovative technologies

The Overall Aims...







To Improve a range of Foundational Literacies

To promote learning through Play

To give teachers new tools and a new zest for teaching

To relate cognitive development and motor coordination

Targeted Literacies

Visual Literacy

Acquisition of English

Fine and Gross Motor Skills

Numeracy

Emotional Literacy





The D G Murray Trust

Samsung donated large TVs

Microsoft donated 10 Xboxes

Intel assisted to source learner tablets

CSIR – authorised use of materials

For those unfamiliar with Xbox Kinect

A gaming console TV screen and sensor

Using Body and Voice

Variety of Games

Adventure-Sports

Dance -Imagination

Learner Engagement with games but also with peers

Learners inadvertently overcome inhibitions

X-box Learning gains

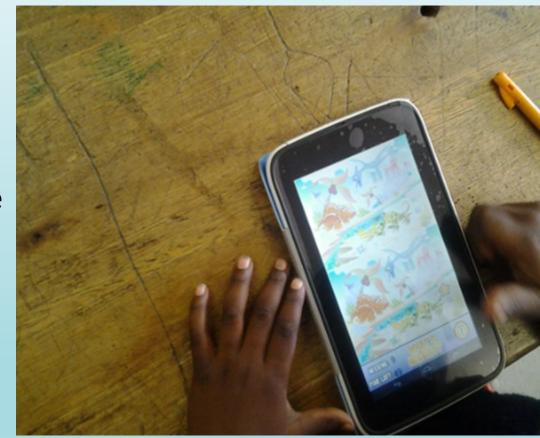
Video of Adele Driesen explaining how an Xbox Kinect could overcome learning difficulties (Lerato in the photo)

https://www.youtube.com/watch? v=dcQ87i8QRdM



Our Research

- In South Africa "learners who speak English as a second-language clearly perform worse on average than their first-language English counterparts"
- Seven of the ten project schools use mother tongue for instruction through Foundation Phase and then switch to English LoLT in Grade 4
- One of the components of the research is to measure any acquisition of English oral language that develops as a result of interacting with apps and games.



Teacher Professional Development

Components	Delivery	Target Group	Days
1. Teacher Professional Development with tablets (ICT4RED course)	Clustered training at central venues by SchoolNet SA facilitators	23 KZN and 30 WC grade R & 1 teachers	10 modules spread out to accommodate implementation
2. Change Leadership course	Clustered training at central venues by SchoolNet SA facilitators	School Management Teams	7 modules, 1 per term
3. Evaluation	Rubricate – external evaluator	10 project schools & 2 control schools	Annually
4. Support & Mentoring	SchoolNet SA	Project teachers and School Management Teams	Once per term

What has been achieved so far?



Teacher Professional Development Outcomes



- Teachers appreciate the potential of play for learning
- Teachers shift pedagogy to use more play-based, learner-centred, and individualised approaches
- Communities of practice emerge, as teachers within and between schools support one another to implement new methods.

Learner-driven activities



- Video of Buselaphi Shelembe
- Explaining how learners find their own apps without being prompted to do so – and letting them do that without scolding them.
- https://youtu.be/LV2z2RGlyZ0

Testing

Baseline Testing
June - Sept 2014



Grade R and 1
 learners at the 10
 schools and 2
 control schools

Follow-up Testing June - Sept 2015



 Grade R (new) and Grade 1 (last year's grade Rs) Final Testing 2016

> Grade 1(previous year's grade R) and Grade 2 (previous year Grade 1)

TASK 3 – Listening & Spec	aking					
				3. Action identification Quest	dens:	
Evaluator-facilitated Task Guide and Score-card			What am I doing? (Perform action of clapping hands together to make a sound)	What am I doing? (Perform action of tooching head with finger tips of right hand and remove)	What am I doing? (Perform action of winking - cloning and opening one eye)	
1. Introduction:			Expected Response duste: Ne votal response = (0)	Expended Response duide: No vertal ecoponse = (0) Nam-English vertal response = (1) English - each only = touch liver, hit/5 (2) English - noun only = tead (see, hand?) (2) English = multiple some(), earnis = touch hand (see, limitage) English = multiple some(), earnis = touch hand (see, limitage) English = multiple cornect words = you touch your head (see, li) English = persons participle = nous = you're souching your head (see, li)()	Expected Response duitle: No vertal response + (fl) Non-finglish vertal response + (fl) English - noun unity + excits (2) English - verb only + excits (2) English - moltiple correct words + Close eve (ver.) (fl) English - multiple correct words + you're weeking/ you're closing your eye (3)	
Hello, I am (Shake hands) What is your name? //esponse How old are you? (Prompt: how many years?) //esponse I'm going to talk in English. I would like you to talk in English too.		Non-English verbal response = (1) English = single noun bese = hands (2) English - single særgle serb base = clep (2) English - single særgle serb base = clep (2) English - single sresent pertudyte = steparing (2) English multiple connect wonds = clip nesitt (2)				
LISTENING Skills – Engagement & Attentiven o = no engagement sporadic engagement simple engagement	nent & Attentiveness pagement O = no verbal response or single name only monosyllabic/simple verbal responses to more		SPEAKING Skills — Vocatedary & Language Use o = no verbal responses at all a ell verbal responses incorrect/ not recognisable/ not in English most (2/3 out of 3) responses correct in English but singular words (verbs OR neuro but not both) mest responses correct in English but at least one multiple word phrase (verb + neuro) all three responses correct in clear English using sentences with neuro and verbs and correct grammar 4. Carrying Out Verbal Instructions: (no demonstration provided)			
2. Identification Card Qu What is this a picture of?			What is this a picture of?	Please will you clap your hands together (nouse for understanding) two times.	Please will you touch your nove /pouse for understanding/ with your thumb.	Please will you stand up (pouse for understanding) and turn all the way around.
			(H)	Expected Response Guide: Usen for inchwollon – eye centact and unincentration = exection and pressure USTENING Skills –	Expected Response Guide: Lister for instruction – eye-concact and concentration fullow instruction – enaction and precision.	Expected Response Guide: Uses for instruction - eye-contact and concentration fullow instruction - enaction and precision
Response?	Response?		Kesponse?	Focus & Enaction no correct physical responses no poor enaction - e.g. claps once/ touches face/ stands/ OR only 1 fully correct basic enaction - e.g. claps more than twice/ touches tongue /half turns// OR 2 fully correct exact enaction/ At J. 3 fully correct		

GRADE_

Name: ___

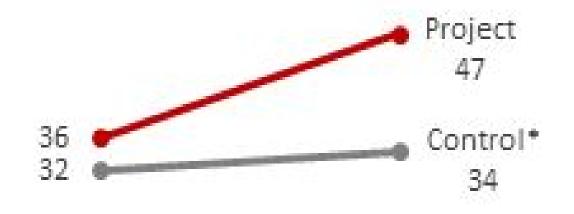
School:

Oral Language Stages

- 1. **The Silent stage**: Learners express no verbal expression but may respond by nodding, pointing, gesturing or performing an act;
- The Early Production Stage: Learners can speak in one- or two-word phrases. Can demonstrate comprehension by short answers to simple yes/no, either/or who/what/where questions. They nod and shake heads and may say "I don't know";
- The Speech Emergence Stage: Learners begin to use dialogue and can ask and answer simple questions. Learners use basic and repetitive patterns of speech. They may produce longer sentences but often with grammatical errors that interfere with communication;
- 4. **The Intermediate Language Proficiency Stage:** Learners start to make complex statements, state opinions, ask for clarification, share thoughts and voluntarily speak at greater length and
- 5. **The Advanced Language Proficiency Stage** Advanced Language Fluency: Learners are now equipped to participate fully in grade-level classroom activities may need occasional support

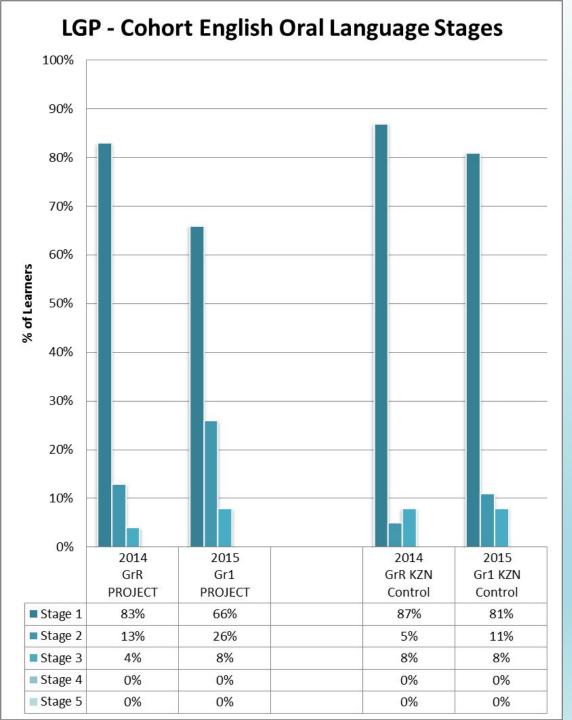
- If we follow our cohort, all schools showed improved oral English skills from Grade R to Grade 1 which was expected
- However Oral English acquisition among the cohort improved significantly more at project schools (where it went up 11 percentage points) than at the KwaZulu-Natal control school, where it went up only 2 percentage.

Oral English acquisition



2014 (Grade R)

2015 (Grade 1)



- Considering the oral language stages, the project cohort shows more than twice the improvement than the control cohort shows.
- The number of children rising up to a new oral language stage in the project schools has more than doubled.

What have we learned?

- Dosage Matters
- Even for free learning teachers are vital
- Curriculum pressure is significant



Conclusion

- We will build on this learning as we continue with the project.....
- During the third and final year of the study the focus will include case study methodology
- There will be an attempt to measure the depth of professional development as well as the extent of exposure to the technologies given to learners by specific teachers and what effect this dosage has on learning gains.



Thank you Grazie

www.learninggains.schoolnet.org.za www.schoolnet.org.za

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