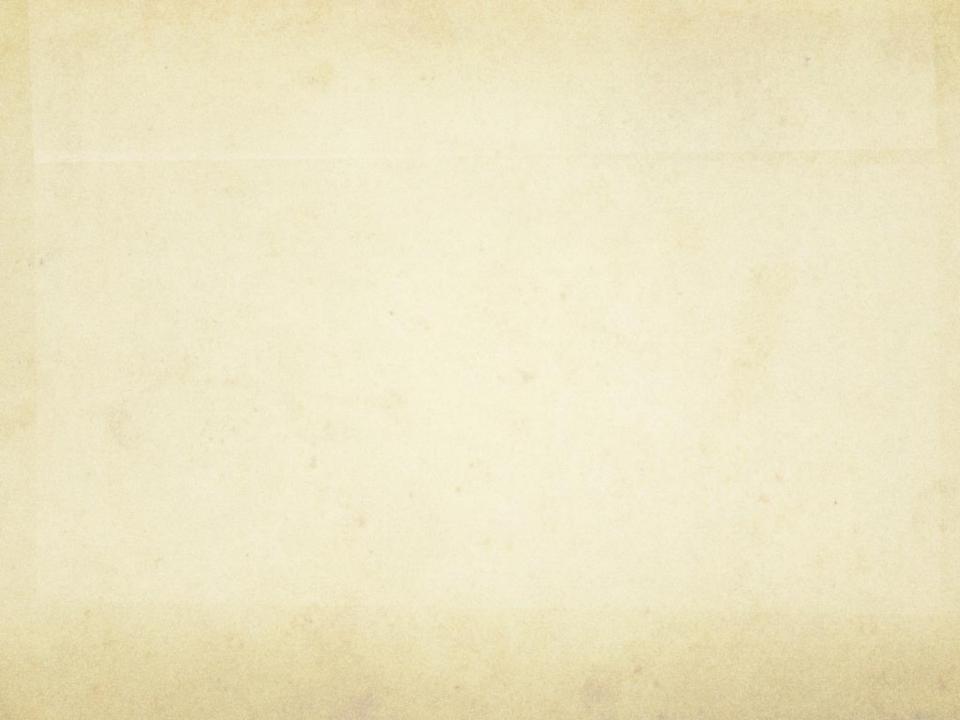
# Using Dynamic Assessment to measure deaf children's reading skills

Wolfgang Mann, PhD

BATOD conference, March 10th, 2017





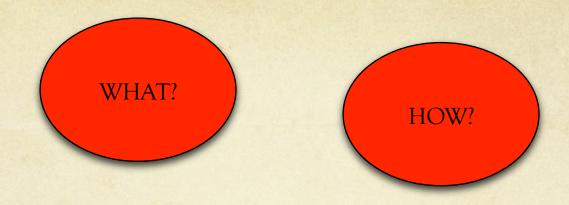
### Discriminating poor readers

Lack of procedures for separating children who primarily have reading problems related to instructional or environmental factors from children who have information processing deficits.

(Hoskyn & Swanson, 2000; Stuebing et al., 2002)

O Cognitive profile of children with reading disability cannot always be discriminated from that of generally low-achieving children when using static or traditional assessments.

(Swanson & Howard, 2005)



Child's response to assisted performance as frame of reference for separating poor readers from children who are RD

### Dynamic Assessment (DA)

- measure learning potential
- evaluate enhanced performance

• Learning through interaction with a more experienced peer or adult (Vygotzky, 1978)

#### Performance

Initial ability level

Learning ability

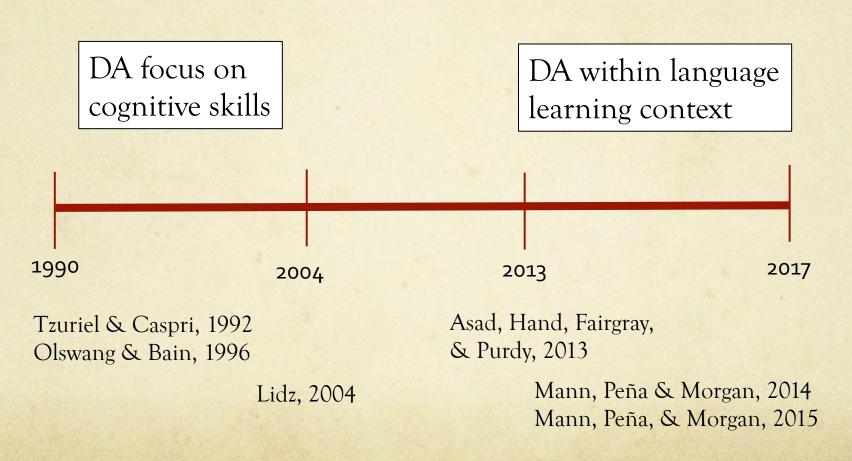
Learning potential: extend to which the performance of a child at a given time can be modified with intervention

## How do you carry out a Dynamic assessment?

1. Test – teach – retest

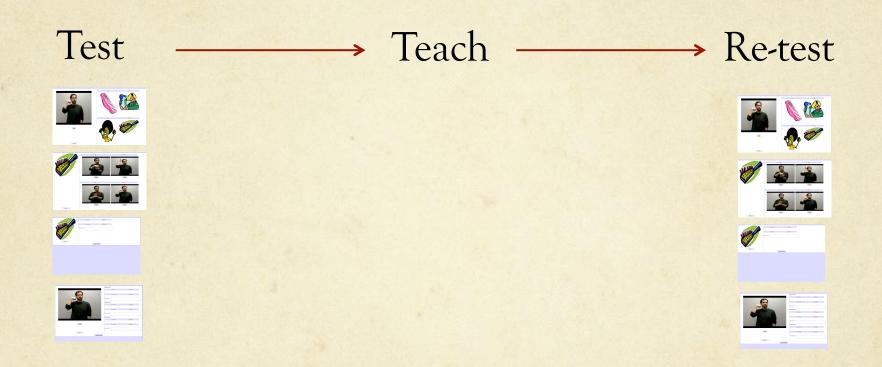
2. Graduated prompting

#### DA with deaf children



### DA of vocabulary knowledge

(Mann, Peña & Morgan, 2014; Mann, Peña, & Morgan, 2015)



- 37 children, 6-10 years, from Deaf school in USA
- 2 Language ability groups (weak vs. strong)

A: Could you explain to me how you grouped these?

C: Well if they were all mixed up and then for example, I needed to find a square, I know exactly where it is rather than having to search through them all. It's better this way. Like if you were to ask me to find a small rectangle, I could find it here.

A: That's a good idea. It's right. Could you think of another way to group these? (Child starts rearranging)

A: What's that?

C: They're in rows of big shapes and rows of small shapes. Rather than looking around the table for a shape, you can just look up or down the rows for a shape or size.

A: Oh so the big shapes are in the row and the smaller shapes are in this row? I see. You're right, it is a lot easier to find. Could I group it like this?

C: Oh by color.

A: Yeah, is that right?

C: Yeah I know what you mean. You're matching it by color.

### Findings

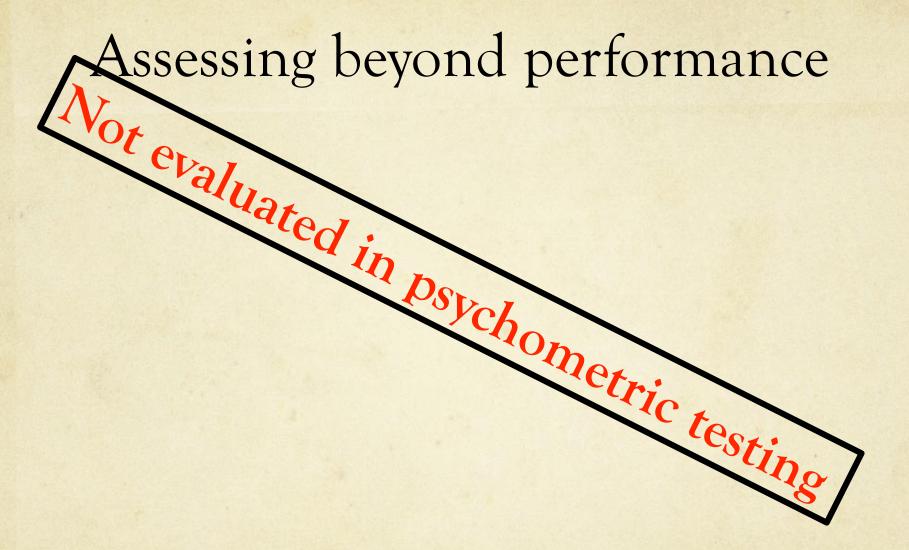
- Group differences in learners' response to mediation
- Response to mediation predictive of language ability
- Increase in post test scores
- Benefit of mediation regardless of ability

But.. isn't DA just like teaching?

YES but...

#### DA..

..provides information on how a child learns in a short & structured way. This enables practitioners to form assumptions how the child may respond to future intervention



DA also evaluates the child's learning disposition

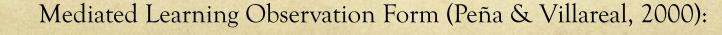
### Evaluating children's response to learning

·	<u> </u>	2	3	4	5
FFECTIVE			7		
• Anxiety	Calm, little to no soothing required	Fidgety, but can be soothed	Uncomfortable, breaks needed to sooth	Distressed, much soothing required	Distraught, crying, cannot be soothed
Comments:		•			
<ul> <li>Motivation</li> </ul>	Enthusiastic, engages in tasks readily	Curious, asks about tasks	Ambivalent, unsure about tasks	Guarded, seems fearful of tasks	Avoidant, does not want to engage
Comments:					
<ul> <li>Tolerance to frustration</li> </ul>	Persistent, wants to continue despite difficulty	Contrite, voices difficulty, but continues	Tentative, appears unsure about continuing	Frustrated, continues under protest	Rejecting, cannot continue



### Evaluating children's response to learning

COGNITIVE (cont.)					
Elaboration Problem- solving	Systematic and efficient	Organized, but inefficient	Sketchy plan	Disorganized, haphazard plan	No plan; trial and error
Comments:				-	
Verbal mediation	Elaborates plan clearly	Talks through	Talks occasionally	1-2 word utterances only	No verbal mediation
Comments:					
• Flexibility	Uses multiple strategies readily	Has preferred strategies, but can change when necessary	Some evidence of more than one strategy and occasionally utilizes them	Recognizes Ilmitations of strategy, but cannot see alternatives	Persists with one strategy, regardless of outcome





THEORY

PRACTICE

How to make DA meaningful in the classroom?

(Lauchlan & Carrigan, 2013)



Complete Learning Principles Checklist Identify important factors for child's learning

#### Feedback

Complete Learning Profile
Feedback to parent, teacher and specialist support
Feedback to child (using child friendly resources)

#### Intervention

Strategies identified from 'Bank of Strategies'

#### Parent Strategies

Working with Individual Child

#### Teacher Strategies

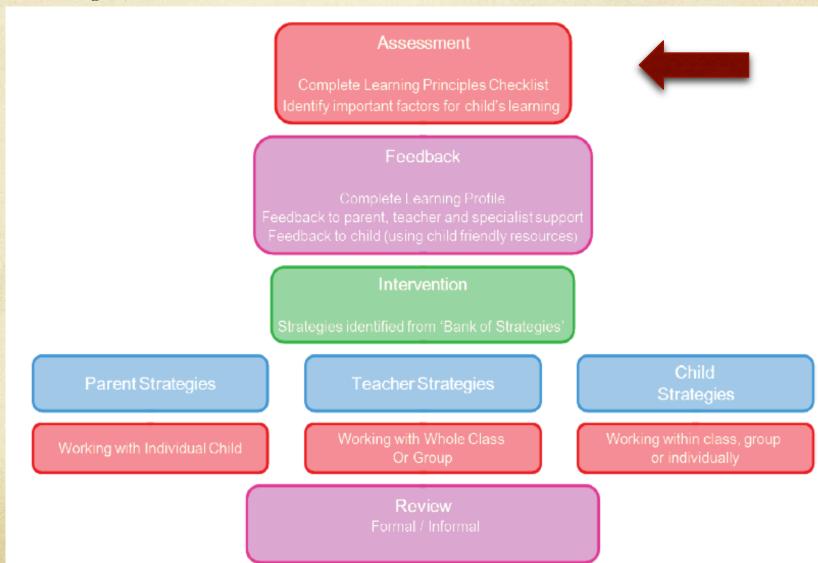
Working with Whole Class Or Group

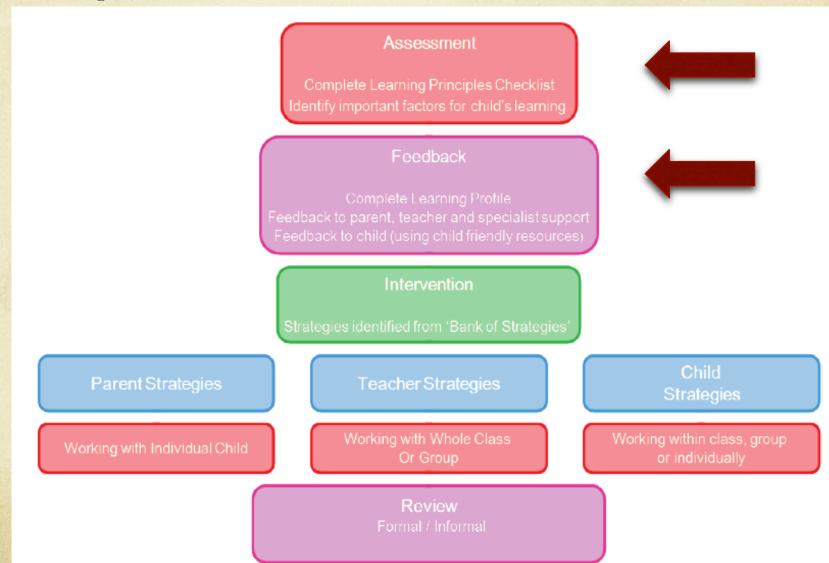
#### Child Strategies

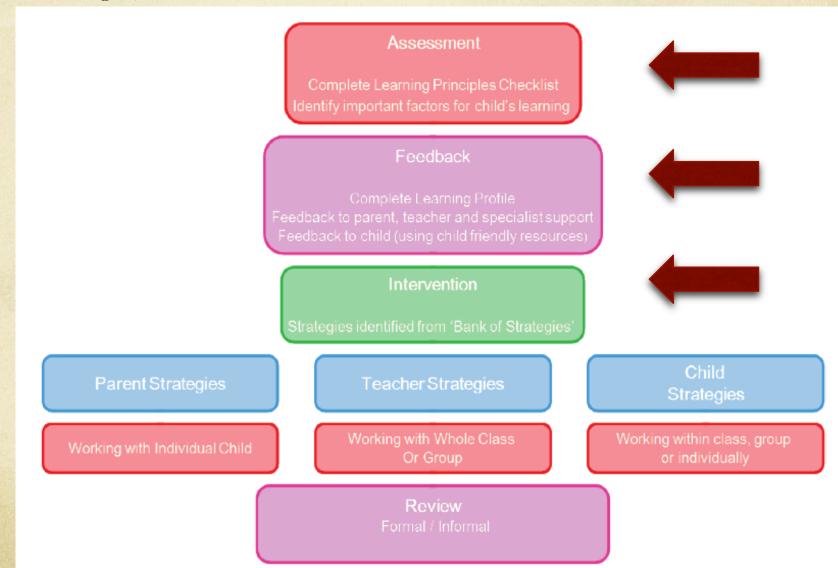
Working within class, group or individually

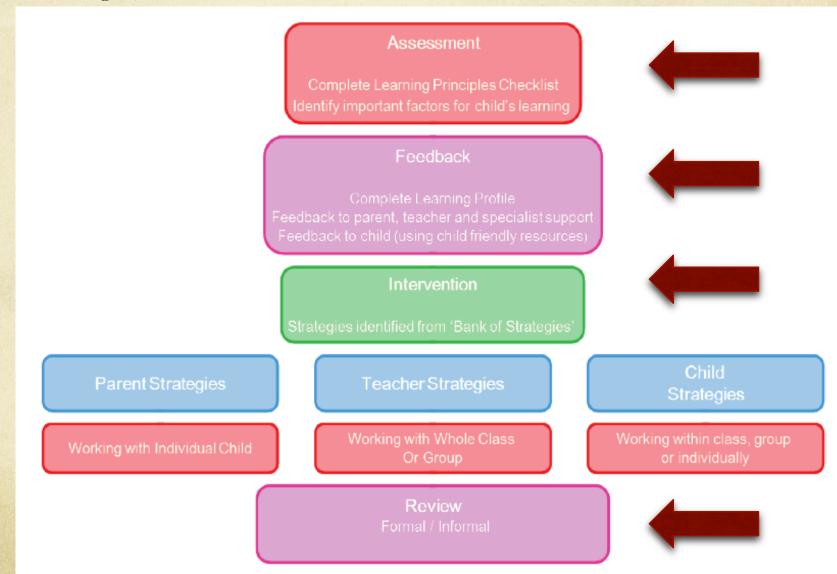
#### Review

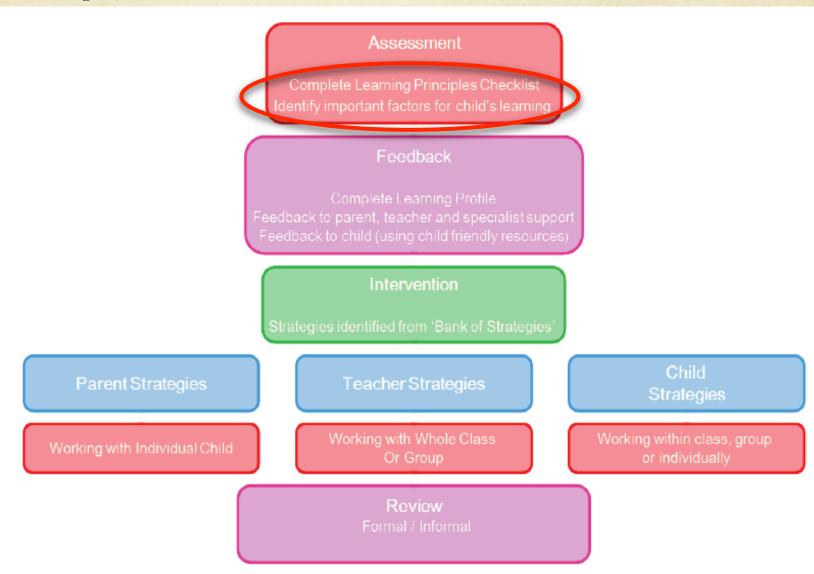
Formal / Informal

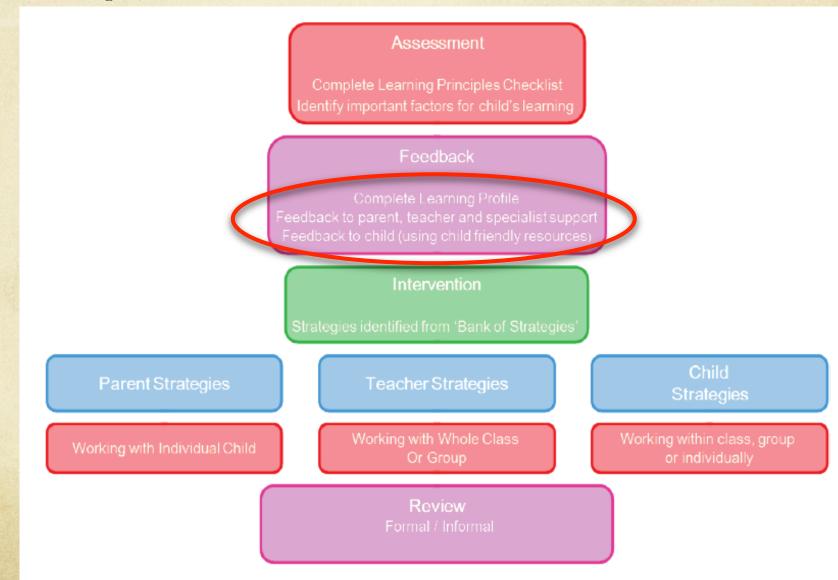












(Lauchlan & Carrigan, 2013)



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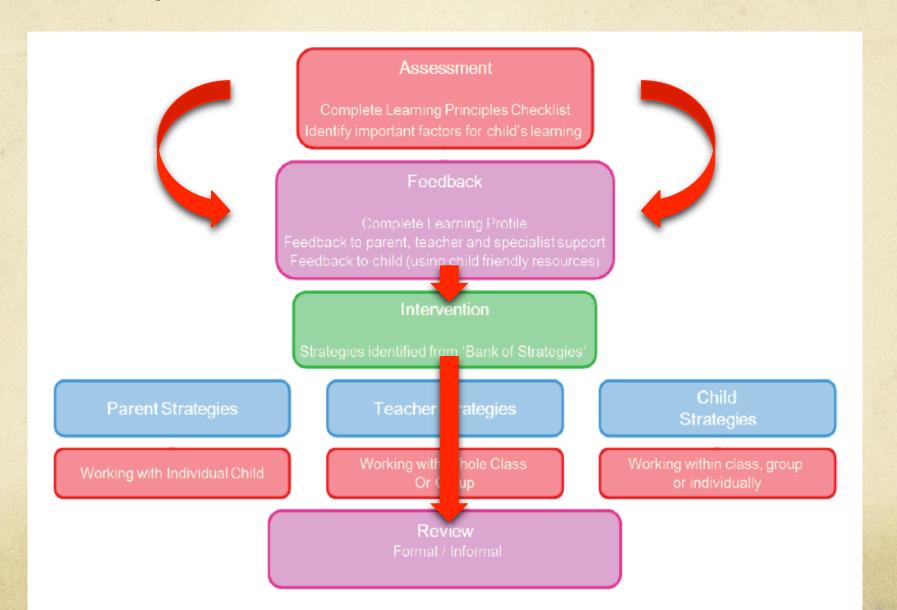
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Review



### A collaborative approach

- Educational psychologist, SLT, teacher, SENCO, CSW, parent, child, researcher
- Agreeing on which Learning Principles to target (cognitive & emotional) and how to target them
- O Use of DA to bring about change in these principles
  - In what ways can the assessor/mediator enable change in the child's approach to learning?

### Ok, I'm in! How can I get involved?

### Deaf children's online reading

(Mann, O'Neill & Thompson, ongoing)



- Exploring strategies used by deaf and hearing secondary students when reading online/carrying out searches on the internet
- Focus on good readers
- Extend to students with varying literacy levels

http://www.ssc.education.ed.ac.uk/research/onlinereading/

### Thank you!

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