









and when students SEE themselves as their own teachers

#### Seminar outline

Session One - Intro. to Visible Learning research Session Two – Visible LearningPlus Strands

- Visible Learners
- Know thy Impact
- Inspired & Passionate Teachers
- Feedback
- Session Three Mindframes

#### Learning intentions

By the end of this session, you will:

- understand the key Visible Learning messages
- understand the key characteristics of the Visible Learning strands
- be able to make links between these messages and what happens in your school.

Workbook page 3

#### Success criteria

At the end of the day, you can:

- articulate the key findings from the Visible Learning research
- articulate the key characteristics of the Visible Learning strands
- describe the Mindframes which have an impact on student achievement

Workbook page 3



#### **Discussion task**

- What are the students able to do that surprised you?
- Are students in your school able to talk about their learning in similar ways?

Workbook page 4

### Rank these six influences from greatest to least influence on student learning

- Ability grouping
- Feedback
- Teacher-student relationships
- Individualised instruction
- Mobility (shifting schools)
- Student expectations of themselves

Workbook page 5

#### And the order is:

- 1. Student expectations of themselves
- 2. Feedback
- 3. Teacher-student relationships
- 4. Individualised instruction
- 5. Ability grouping
- 6. Mobility (shifting schools)

Session One: The Visible Learning research





#### The Visible Learning research How did it work and what did it say?

VISIBLE LEARNING: A SYNTHESIS OF OVER 800 META-ANALYSES IN EDUCATION Professor John Hattie The University of Melbourne Senior Research Consultant (Visible Learning<sup>plus</sup>)

- 800+ meta-analyses
- 50,000+ studies
- 250+ million students

# All studies measured growth or difference

- Growth over time
- Difference between different aspects being researched

Three types of data collected:

- Baseline and endpoint
- At multiple points
- Comparative











Rank	Overall ranking (in full research sample)	Effect size
Ability grouping	131	0.12
Feedback	10	0.75
Teacher-student relationships	12	0.72
Individualised instruction	109	0.22
Mobility (shifting schools)	150	-0.34
Student expectations of themselves	1	1.44
	W	orkbook page 5









What is the effect or achievement?	effect?	ces on student
Decreased	Zero	Enhanced

Rank	Influence	Studies	Effects	Effect size
150	Mobility (shifting schools)	181	540	-0.34
148	Retention (holding students back a year)	229	2882	-0.13
	Dack a year)			

Rank	Influence	Studies	Effects	Effect size
145	Open vs traditional learning spaces	315	333	0.01
136	Teachers' subject matter knowledge	92	424	0.09
131	Ability grouping (tracking/streaming)	500	1,369	0.12
125	Matching learning styles	244	1,234	0.17
120	Within-class grouping	144	209	0.18

Rank	Influence	Studies	Effects	Effect size
94	Homework	161	295	0.29
91	Inquiry-based teaching	205	420	0.31
73	Principals/school leaders	521	1,409	0.39
65	Cooperative learning	365	908	
58	Early interventions	1,704	9,369	0.41
51	Parental involvement	748	1,815	0.41

Rank	Influence	Studies	Effects	Effect size		
94	Homework	161	295	0.29		
	Primary 0.15 Secondary school 0.64					
		(	Workbool	k page 11		

Rank	Influence	Studies	Effects	Effect size
47	Professional development	622	2,062	0.51
45	Socio-economic status	499	957	0.52
42	Classroom management	100	5	0.52
37	Student-centred teaching	19	19	0.54
32	Worked examples	62	151	0.57
32	worked examples	02	151	0.57

Rank	Influence	Studies	Effects	Effect size
10	Feedback	1,310	2,086	0.75
9	Teacher clarity	39	110	0.75
7	Classroom discussion	42	42	0.82
6	Micro-teaching	402	439	0.88
5	Providing formative evaluation	30	78	0.90
1	Student expectations (of themselves)	209	305	1.44
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So.	what matters most?
1.	Teachers, working together, as evaluators of their impact
2.	The power of moving from what students know now towards explicit success criteria
3.	Errors and trust are welcomed as opportunities to learn
4.	Maximize feedback to teachers about their impact
5.	Getting the proportions of surface to deep correct
6.	The Goldilocks principles of challenge, and deliberate practice to attain these challenges











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Mindframes
Visible Learner
Visible Learning research
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#### Elements of Teacher Clarity - explained

- 1. Clarity of objectives e.g. learning intentions, success criteria
- Clarity of explanation how well are these explained, discussed?
- 3. Clarity of demonstration modelling, showing, exemplars
- Clarity of practice activities and tasks well chosen to ensure deliberate practice on the stuff that matters for this learning objective
- 5. Clarity of questioning in order to assess what was learned or not & to help identify 'next steps' for learning



#### Learning intentions

Describe clearly what the teacher wants the students to *know*, *understand*, and *be able to do* as a result of learning and teaching activities.

#### Success criteria

- Are linked to the learning intentions
- They describe what success looks like
- They help the student and the teacher make judgments about the quality of student learning



#### SMART+ER goals

Specific Measurable Ambitious Relevant Timely Evaluate Re-evaluate











Stahan -> I need help to do this I can add and	T can do this most of the time. Sayer Juan Costry Garage	T'm an expert I can do this on my own groots Artone Anovie Aronom
I can add and authorit decimals to the hundred the		Texator
I can multiply multiplight numbers Chindron Using the tradition algorithm. (9.487.9)	Tuan Arlene Aris Anthony Tissoc Arigiding Domini Markela Schange Cal Joseph Jose Jeccica Devisition	Access Sector 3044
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For example: <u>māmā</u> (mother, mum), <u>pāpā</u> (father, da born), <u>kaha</u> (strong/capable), <u>mõhio</u> (ci				ki (to loo	k after),	tupu (to	grow), <u>v</u>	vhānau	(to be
Success criteria:	Self- assessment			Peer assessment		Teacher assessment			
	٢	۲	8	٢	٢	8	٢	۲	8
I can understand some words about me and my family when I hear them.									
I can use some words to talk about me and my family.									
I can read and write some words about me and my family.									







- Helping students understand the next small steps they need to take in their learning
- Supporting students to receive and act on feed forward





Engagement	lities – exampl	Responsibility
Actively listens to others     Actively listens to others     Asks appropriate question     Shares ideas and opinions     Provides well thought-out     answers to questions	Persevers and attempts difficult work     Communicates with clarity, precision and accuracy     Consistently strives to improve Creates and /or innovates using imagination	Turns work in on time. Uses time effectively Uses technology appropriately is organized and prepared to learn Takes responsible risks
Respect Follows school and class rules Shows respect for all people Manages impulsivity Advocates for self	Compassionate participation Cooperates with peers in an equitable and constructive manner Considers the opinions of others Reacts positively to others class discussions and group settings.	

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GREEN BAY HIGH SCHOOL EFFECTIVE LEARNER PROFILE
A COMMUNICATION OF A SUBJECT AND A SUBJ
Sector (1, MEX) and (2)         (2)         (2)         (2)           Sector (2)         Sector (2)         (2)         (2)         (2)           Sector (2)         Sector (2)         (2)         (2)         (2)           Sector (2)         Sector (2)         (2)         (2)         (2)



#### Know thy Impact

- How do you know about the progress of students at individual, class, grade, or school levels?
- We need to think about our impact not just in terms of achievement but also progress.

"It is a way of thinking. My role ... is to evaluate the effect I have on my students. It is to 'know thy impact,' it is to understand this impact, and it is to act on this knowing and understanding".

- John Hattie, 2012







# There are many ways to measure progress

- Effect sizes (using standardised assessments)
- Effect sizes (using non-standardised assessments such as teacher-made pre- and post-tests)
- Monitoring learning progressions
- Student voice







#### Remember -

the message is "Know thy Impact", not "thou shalt calculate effect sizes".

			visible learning the
		Mindframes	
Visible Learner	Know thy Impact	Inspired and Passionate Teachers	
	Visi	ible Learning research	
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#### Inspired teachers focus questions

- To what extent do the teachers in your school match the profile of inspired, impactful teachers?
- How deliberately are you teaching students to exhibit the characteristics of a visible learner?











#### The 7 Cs

- Care
- Challenge
- Clarity
- Captivate
- Confer
- Consolidate
- Control

#### Expert and experienced teachers

- Is there a difference?
- How would you know?

#### **Expert teachers:**

- 1. identify the most important ways in which to represent the subject that they teach
- 2. are proficient at creating an optimal classroom climate for learning
- 3. monitor learning and provide feedback
- 4. believe that all students can reach the success criteria
- 5. influence surface and deep student outcomes.

#### Partner activity

Compare your list with the research evidence.

Workbook page 22



Effective teachers talk to each other about student learning and the impact they have









"Effective feedback doubles the speed of learning" – Dylan William



# What is feedback?

#### Building your foundations for feedback

- What is the culture of feedback like in your school?
- Is it OK for teachers, students and leaders to say "I don't know" or "I need help"?
- Who actively seeks, gives, and receives feedback in your school?









Give students feedback and feedforward





Session Three: Visible Learning Mindframes































#### New # 1

Collective teacher efficacy ES 1.57



#### Success criteria

At the end of the day, you can:

- articulate the key findings from the Visible Learning research
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#### **Evaluation online**

To complete this workshop evaluation online, please use the link:

https://www.research.net/r/VisibleLearningSurvey

# Contact us email: shawthorne@cognitioneducation.com Image: Shawthorne@cognitioneducation.com