

Literacy + Numeracy Expo 25th + 26th Aug.

Monday: Numeracy

- 9-9:30 - Opening
- 9:30-10:30 - Keynote #1
- 10:30-11 - MORNING TEA
- 11-12:20 - Keynote #2
- 12:20-1:20 - LUNCH
- 1:20-2:20 - WS #1 (3.1)
- 2:20-2:30 - move
- 2:30-3:30 - WS #2 (4.6)
- 3:30 - END OF DAY

<u>3.1</u> Leading numeracy - Shane Kelsey - Kylie van der Akker
<u>4.6</u> Investigations in Number - Julie Wake-Cozens - Kym Hill

#litnum14

Tuesday: Literacy

- 9-9:30 - Opening
- 9:30-10:30 = Keynote #1
- 10:30-11 = MORNING TEA
- 11-12:20 - Keynote #2
- 12:20-1:20 - LUNCH
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- 2:30-3:30 - WS #2 (4.1)
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<u>3.6</u> Composing written texts - Kylie Pedler - Sharon Clyma.
<u>4.1</u> Community of lit learn - Tamra Waye - Brenton Willson

Keynote #1 : Mathmania

25/8/14

@mathemaniac / Simon Pampena.

Numberphile. Twitter : @numberphile

SUDOKO - Perseverance.
- Number Puzzle

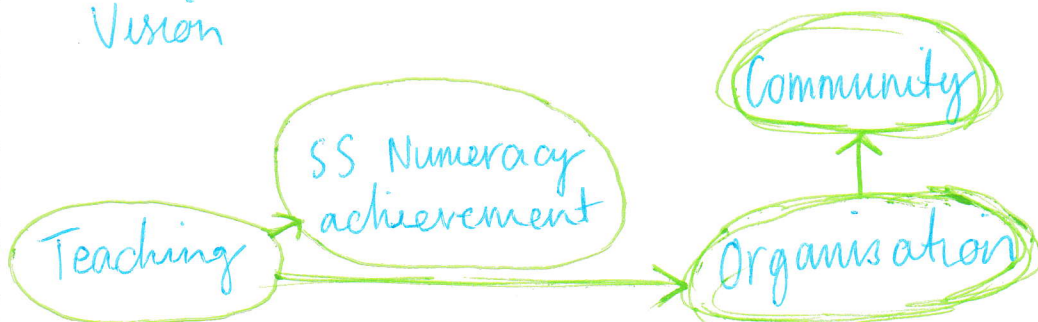
Keynote #2 : leading improvements in student numeracy.
- Mike Gaffney + Rhonda Faragher.

Blend the bottom up + extend the ss @ the top

L.A.N.D - development of ss numeracy.

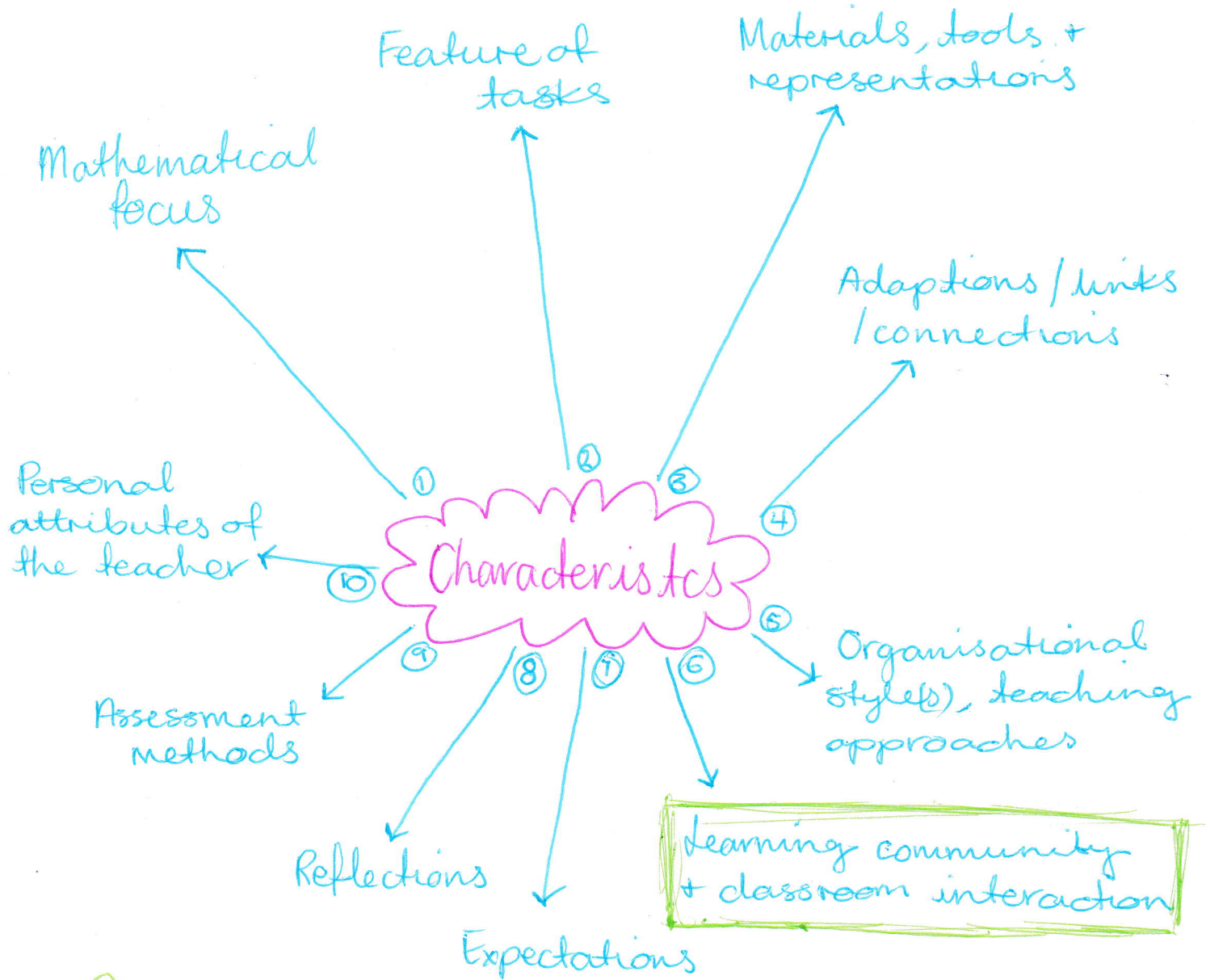
Is 90% ok? What about the other 10%?
How do you extend the 90% while reaching the 10%.

Vision



25 characteristics of effective teachers of numeracy.

- See handout.



10-Characteristics
25-Actions

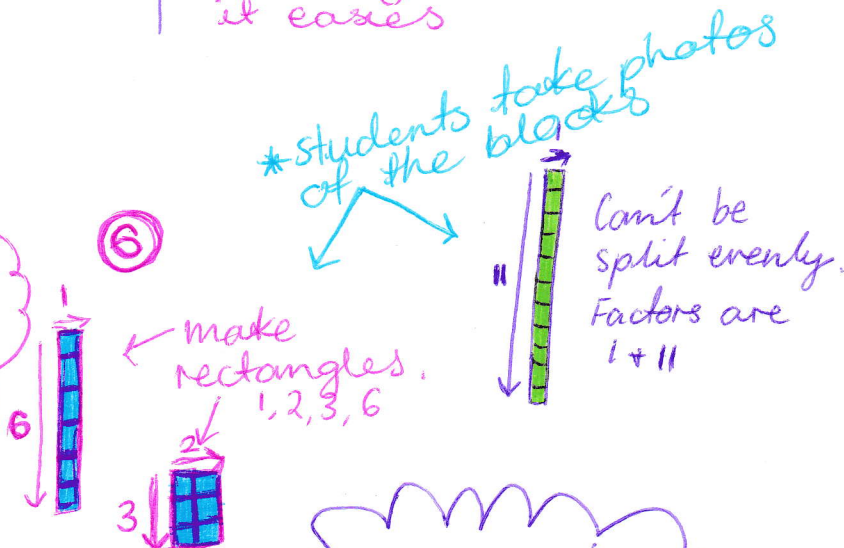
The big ideas

- dedicated time for maths
- + making the point
 - Phases
 - Intro
 - During
 - Concluding
- Thinking mathematically
- + not just how it works → why it works.

working	thinking
<ul style="list-style-type: none"> • Calculations • results 	<ul style="list-style-type: none"> • what you would like to try • conjectures • what you might do next.
<ul style="list-style-type: none"> • Write numbers down. 	<ul style="list-style-type: none"> • I might try • Where do I start • Do diagrams make it easier

Q: Which numbers have an odd number of factors

Use blocks to demonstrate factors



Begin with individual work

Individual work

Group discussion

Class discussion



* gives students an opportunity to try for themselves.

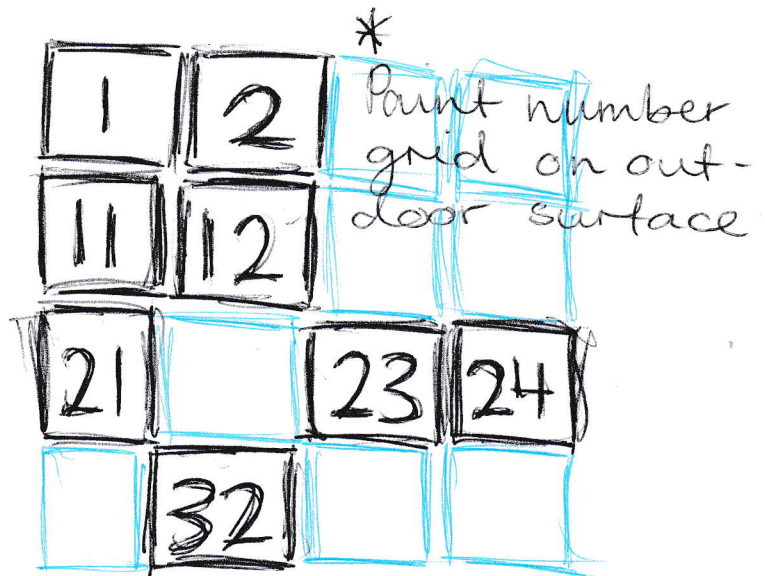


Students can share their working out to small group

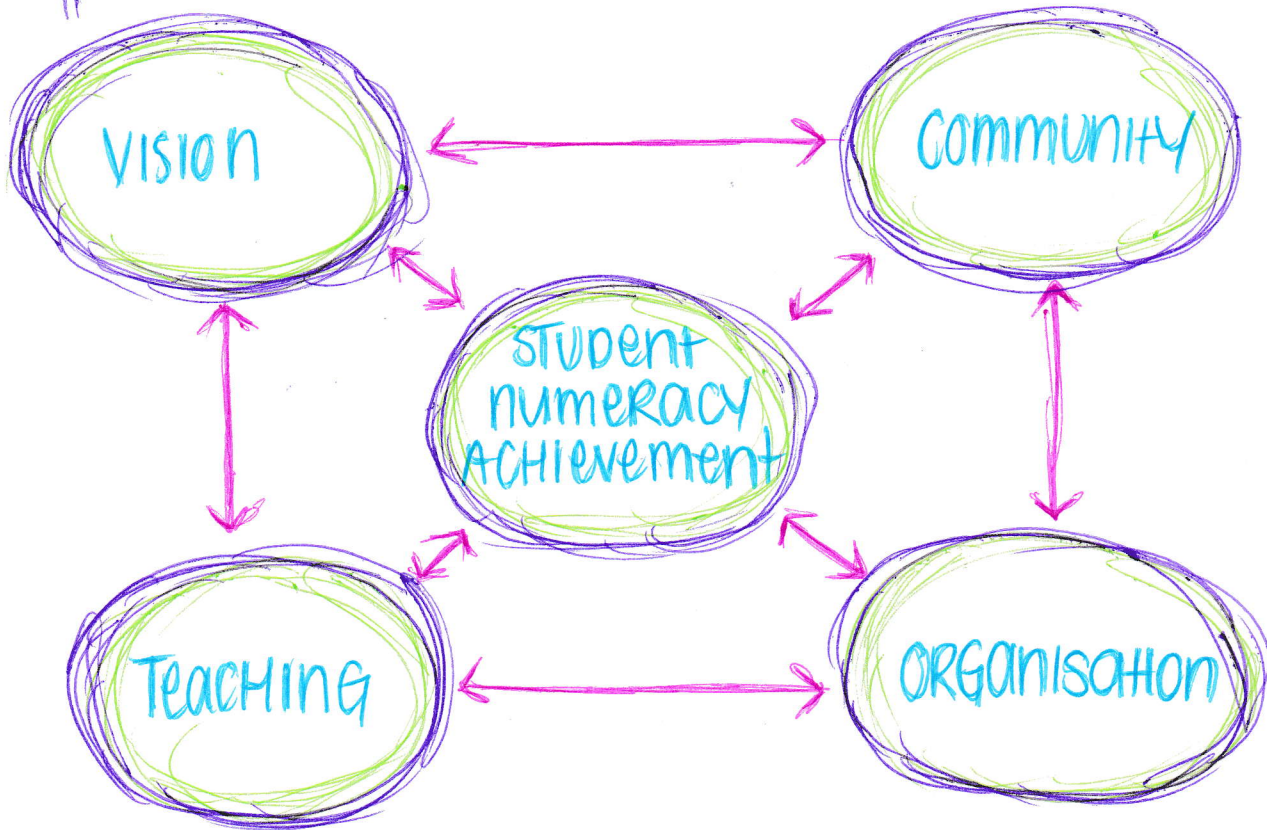


Students can share thoughts with the class.

SPECIALISING
GENERALISING
JUSTIFYING
COMMUNICATING



THE LAND FRAMEWORK!



PROMOTE
HIGH EXPECTATIONS

It will be shakey!
You can't expect it
to be smooth from
step 1 → 5

WS # 7

Leading Numeracy Improvement through Coaching

- Shane Kelsey
 - Kylie Akker.
-

$$\boxed{2} + \boxed{3} = \boxed{5}$$

$$\boxed{9} - \boxed{2} = \boxed{7}$$

$$\boxed{2} \times \boxed{4} = \boxed{8}$$

Use 1-9 so each statement is true.

- How many solutions are there in total
- How do you know when you have found them all.

↑ This is wrong.
It is like sudoku
use no. 1-9 no
repeats allowed.

What is coaching?
- meeting a particular goal.

(PAT maths)

1) Pre-lesson conf.

2) Working in the classroom

3) Post-lesson conference.

ESTABLISH

Goals: NOT
to many!

evaluate!

where to next?

Open ended maths activities

CLOSED

$$16 + 4 = 20$$

OPEN

$$? + ? = 20$$

Different
types of
maths
questions

INVESTIGATION

How many possible
answers are there.

MINI LESSON

enabler - easier
extender - harder

	Red	Yellow	Blue.
Share	2 18×2 $18 + 18$	6 36×6	4 25×4 $25 + 25 +$ $25 + 25 =$
Kylie	6 $18 \times 6 =$ $10 \times 6 =$ $+ \quad \quad \quad$ $8 \times 6 =$	4 36×4	3 25×3

Red = 18pts

Yellow = 36pts

Blue = 25pts.

Who won the game? Prove it!



MINI LESSON

enabler - easier
extender - harder

	Red	Yellow	Blue
Shane	2 18×2 $18 + 18$	6 36×6	4 25×4 $25 + 25 +$ $25 + 25 =$
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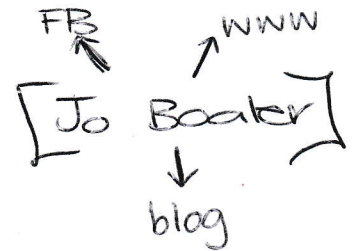
Blue = 25pts.

Who won the game? Prove it!

OBSERVATIONS

They can be focused on...

- * Relevance to the learning
 - * Differentiation
 - * Effective questioning
- * Student engagement
 - * Teacher's own professional learning goals.



WS # 2

Investigations in number.

-Kym Hill

-Julie Wake-Cozens.



Through investigations you will find that students will need extra help with skills they have not yet acquired.

Use workshops to reach these kids

ie: "I am running a workshop on x today, those who would like to know more about x come with me"

WARM
UP'S

① Use to start off a lesson.

- Can be as simple as putting a number on the board + getting the students to tell you as much as possible.

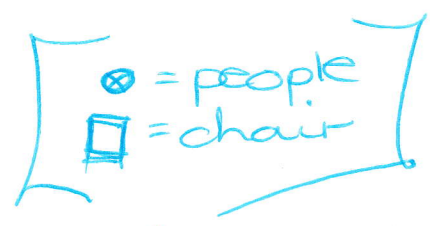
② Number Statements (see handout)

ie: The sum of 3 odd numbers is odd.

Frogs & Lily Pads



Lily Pads



- * You can only move forward 1 spot
- * You can hop over 1 person to an empty lily pad.
- * CAN NOT move backwards *

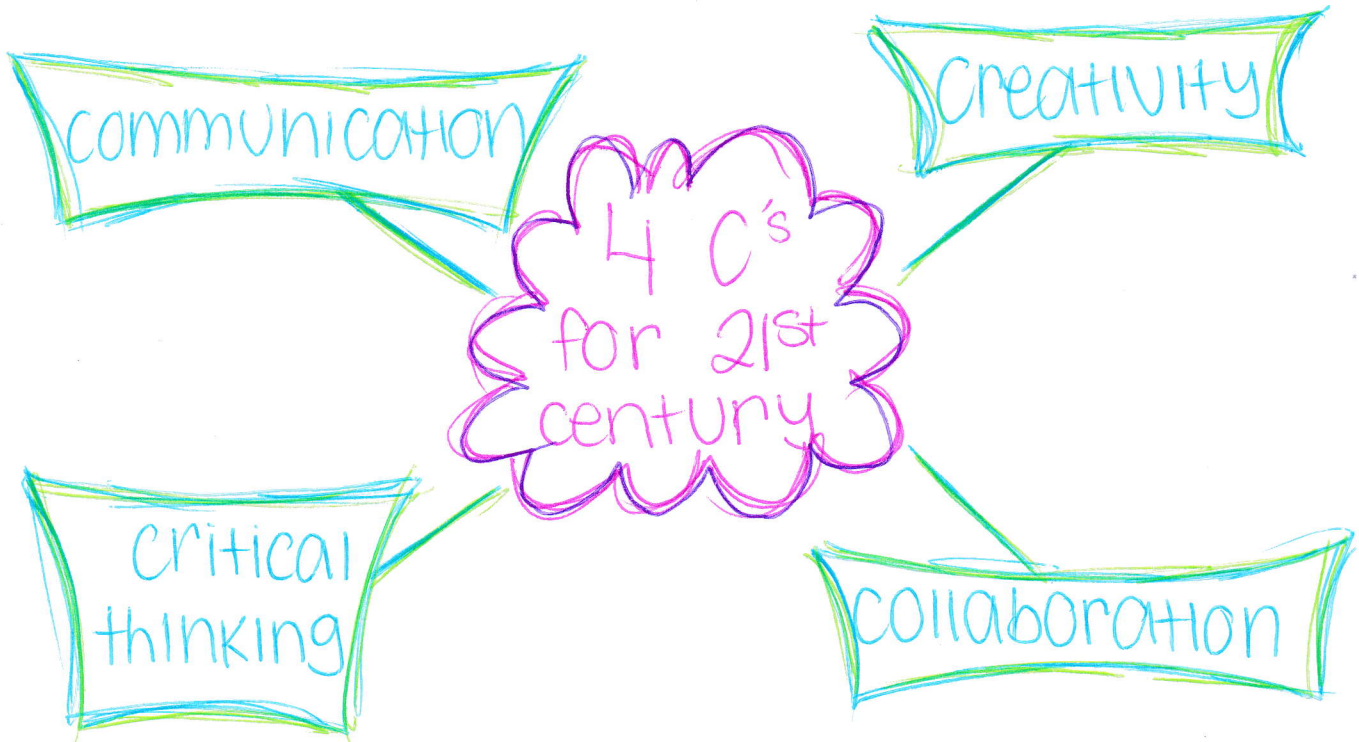
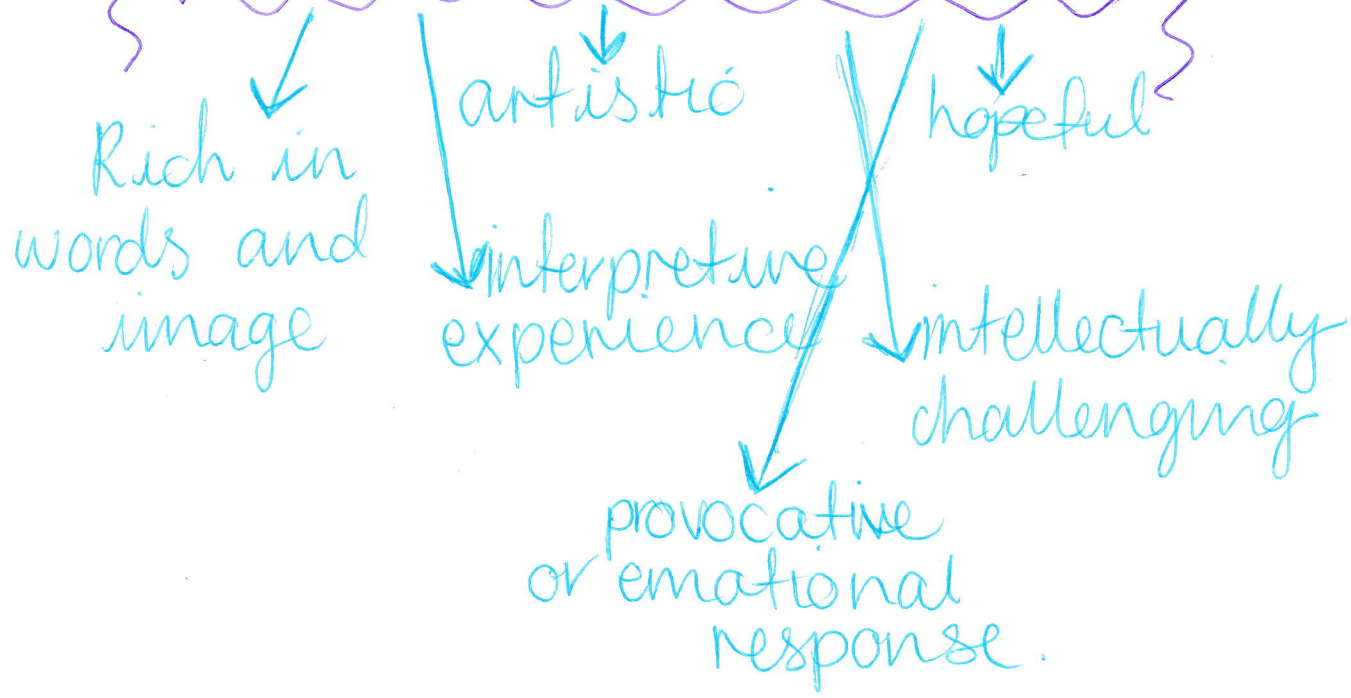




Drama is a critical, quality pedagogy *

- The role of arts rich experiences + processes in learning how to mean - and literature as an art form.

Choosing imaginative literature



Keynote #2 - Lisa Kevin

[Powerful and playful]

literacy learning with digital technologies.

LEGO + MINECRAFT

- 1 student uses lego
- 1 student uses ipad for minecraft.

- students can compare between each others + then swap over.

PLAY has no specific purpose
activities are often exaggerated
is joyful and voluntary
is child led.

SAM animation

* stop motion app

mycreate - \$6.49 (stop motion)

WS # 1

Composing written texts across the Aust. Curric (F-6)

o Adding visual representation to written text.

Genre Overview

	F	7					
Purpose	Type		Aus Curric Purpose	F	1	2	3 ...
			1	responding			
				recounting			Historical recount.
				persuading			
			2	explaining			
				narrating		narrative	
			3				

Sc scaffolding

1. Students organise pre printed text
2. Students then draw/write their own text.

Historical Texts

- Who are the stolen generation

Hiroshima

- Sadako and the 1000 cranes.
- Yoko's diary

- what is a historical recount.
the purpose?

* Immerse students in
the topic with integration

nonilised forms

CLASS NOVEL

links to geog atm.
asian countries.

Sadako

- 1000 cranes (cover the walls)

* SS create

make cranes
while I read

natural
+ colours

nat.  Colour

WS #2 - Tamra Wayne + Lyn Jefferies

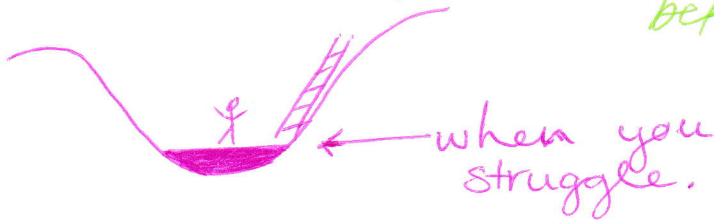
A community of learners.

Building a community of learners.

- Who are learners
- What does learning look like.

"The Pit"
the learning pit

*ask 3 people
before the teacher.



Ikea high gloss
square tables
- You can
write on them
Mr. Sheen them
☺

V.I.T Headquarters

Very Important
Teaching space

EXPERT LEARNER
ATTRIBUTES

Start of the year

o Self portraits

- Use Austin butterfly to prompt Ss to give feedback to each other.

When we think geographically we...
class brainstorm.

Place	Scale
Space	Sustainability
Change	Environment
Interconnection.	

What are they...?

Start of the year.

o What do you want your classroom to look like?

- * Design + Tech.
 - diarama.

* Stand up teacher desk *

- 1 - 30second talk
- 2 - Exposition writing

Classroom Zones

Learning zones ↙ small groups.
↳ Individual
listening zones 1
comfort zone

Free zone - works to your needs @ the time
listening zone 2

VIDEO'S

- Handwriting
- Writing

- Use video's for individuals or small groups for specific task.
- Can scaffold for some students.