The Learning Challenge

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How do you respond when students are CONFUSED or make mistakes?

Challenging







Don't ask what teachers do.

Instead, ask students what their teachers value



"The most productive classrooms are those in which students work on complex problems, are encouraged to take risks, and can struggle and fail and still feel good

about working on hard problems."

Boaler, 2015, p.177













The Learning Challenge: Guiding students through the Learning Pit



Concepts in everyday (school) life

- 1. It's not fair
- 2. Are we still **friends**?
- 3. Please will you help me?
- 4. Stop calling me names!
- 5. That is bullying
- 6. Stop daydreaming and pay attention!
- 7. Act your age!
- 8. That was a foolish thing to do
- 9. That was the **best** one yet
- 10. Why the sad face?
- 11. Lovely to see you looking happy
- 12. Who knows the answer?
- 13. Come on: play the game!

- 13. I was only joking
- 14. That was a kind thing to do
- 15. What a great team you make
- 16. Make sure you share properly
- 17. You can all go home now
- 18. Are you telling me the truth?
- 19. That was a stroke of luck
- 20. Tell me what is wrong
- 21. Play nicely together
- 22. Can you explain what you did?
- 23. I don't understand
- 24. Stop telling tales
- 25. We need to show respect for

LEARNING

each other

Concepts for young children

Being nice	Hygiene
Choice	Language
Dreaming	Me
Emotions	Pets
Fairness	Real
Fairy tales	Same
Friends	Shape and space
Growth/change	Superheroes
Health	Telling lies
Home	Thinking
English	





Art & Design

Citizenship

Audience Beauty Colour Copy Elegance Expressionism Imagination Meaning Music Originality Perspective Real Simplicity Surrealism Value Bravery/Courage Bullying Community Conscience Consequence Courage Culture Democracy Duties Enterprise Equal treatment Fairness Famous Freedom Friendship Hatred Justice/just dessert Life choices Love Nation Responsibility Revenge Reconciliation Rights Risk Talent Truth Value Welfare Will power Challenging LEARNING

English

Humanities

Chivalry Democracy Drama Fairness Goodness Hero Honour Justice Language Love Madness Poem Power Romance Story Biodegradable Border Cause Culture Cultural globalisation Democracy Empire Equality Evidence Globalisation History Home/place Interpretation Justice Migration/immigration

Mountain Nation Poverty Race Rivers Social Diversity Tourist Truth Urbanisation



Maths

Continuous Equal Infinite Logical Measurement Nil/zero Number Odd Numbers Probability Proportion/ratio Shape Significance Size Unit Value

MFL

Communication Culture Foreign Globalisation Identify Language Nationality Understanding

PE

Competition Condition Confidence Drugs Fair Games Performance Race Sports Success/failure Talent Team



RE	Science	
Belief	Biodegradable	Knowledge
Culture	Cause	Proof
Faith	Discovery	Same (Cloning)
Fate	Drugs	Science
Morality	Elements	Significant
Tolerance	Evidence	Species
Tradition	Evolution	Theory
Truth	Experiment	Universe
Value	Exploration	Waste
	Fair Test	
	Forces	
	Genetic	
	Human	
	Invention	

How many 'real' apples are there?



Concept Table

	A. Real	B. Not Real	C. Not Sure	Reason
1. A toy animal				
2. A dead animal				
3. An unborn animal				
4. A photo of an animal				
5. A drawing of an animal				
6. Your memories of an animal				
7. The Three Little Pigs				



What's the difference between ...?

(is this the same as that?)

Challenging

What is the difference between ...















Extending Odd One Out



Extending Odd One Out



Concept Line







LEARNING CHALLENGE VALUES

Challenge is not difficult, challenge is interesting

Easy answers should be extended

Desirable difficulties lead to longer-lasting learning

Struggling is not a sign of weakness but of developing strength



www.ChallengingLearning.com

Challenge builds self-efficacy

Education should also value resilience, empathy, patience, self-awareness, hope, open-mindedness & confidence

Feedback is one of the most significant influences on student learning

"Twelve metaanalyses involving 196 studies place feedback among the top 5 to 10

f 1.0

Lysakowski and Walberg, 1982

"The effect of feedback on learning... suggest average percentiles on learning outcomes between 50% and 83% improvement."

Hattie, 2009













Success Criteria for history essays



Introduction

- 4+ sentences
- Proposition stated
- Outline of narrative
- Context of topic

Body of essay

- 3+ paragraphs
- 6+ facts per paragraph
- Inter-relationships
- Argument is relevant
- Quote with source given

Conclusion

- 3+ sentences
- Summation
- Proof of proposition
- Specific reference to assess/evaluate



Emails from Frank Egan, Perth, WA

Year 10 onwards We finished in the top five schools for History in the state The self-evaluation guidelines

helps both students and teachers

learning



The majority of the class noticed a **high degree of confidence** in their expected exam performance with a **reduced stress level**

(Nov 2016)

I am developing a new formative rubric for middle school Science, Technology, Engineering, Arts and Maths

lov 2016)

Example Success Criteria in Maths



 \checkmark = Starting Point = Current Point

Not Shown	Need help	Getting it	Got it
		\checkmark	
	./		
	- 		

<image>

Example Success Criteria in Elementary Literacy











Feedback after final edits is not cheating! (unless you think of yourself as a referee rather than a coach)





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"Research experiments have established that whilst pupils' learning can be advanced by feedback through comments, the giving of marks, or grades, has a negative effect because pupils ignore comments when marks are also given"

Black & Wiliam (2002)





The Learning Pit, written & performed by Grace Gaffney, aged 6

