

BACKGROUND & CONTEXT

- Independent, Uniting girls school, Prep Year 12
- Principles: Respect, Courage, Excellence, Optimism & Compassion
- Positive Education School
- Growth Mindset culture

Common concerns:

- Performance oriented.
- Passive, compliant, risk adverse.
- Ineffective feedback engagement.
- Growing student anxiety

Funnelling focus: <u>CURIOSITY</u> – "a physiological state that includes three components :

- Recognition of an information gap.
- Anticipation that it may be possible to close it.
- An intrinsically motivated desire to do so." (Pekrun, 2019, p. 905)

Promoting Curiosity:

- ✓ Encourages a student-centred feedback model
- ✓ Fosters knowledge building and risk taking
- ✓ Supports flexible, adaptable, growth mindset.
- ✓ Important contributor to academic achievement.



oewenstein's Information-gap perspective of curiosity (p. 89)

RESEARCH QUESTIONS

To what extent are our students curious?

> How can learning experiences be designed to promote student curiosity across subjects in Years 7 - 12?

References

Jirout, J. J., Vitiello, V. E., & Zumbrunn, S. K. (2018). Curiosity in schools. In The new science of curiosity, (pp. 243-266). Nova Science Publishers, Inc. Lehman, B., D'Mello, S., & Graesser, A. (2012). Confusion and complex learning during interactions with computer learning environments. The Internet and Higher Education, 15(3), 184–194. https://doi.org/10.1016/j.iheduc.2012.01.002

Fostering a Curious Mindset

Fiona Cooney, Malinda Gardner, Evan Roberts, Katharina Colmer, Deborah Hill & Ken Wong

METHODS		
	Phase 1	Phase 2
Participants	Students Years 7-12	Teachers
Procedure	Survey	Focus groups
Process	Mentor group time, Term 2, 2021	Meetings
Measures	 Scale: 1= strongly disagree to 7 = strongly agree I find it fascinating to learn new information. I really like to ask questions about all sorts of things. I feel frustrated if I can't figure out the solution to a problem, so I work harder to solve it. 	

ANALYSIS & RESULTS



Phase 2: Teacher Focus Groups





	Prior knowledge
0.	Reflect on gap
the Bap	Articulate needs
onder	Model uncertainty
	Question promoting
	Inquisitive language

RESULTS

Criteria:

- Identify prior knowledge
- Reflect on information and/or skills gap
- Articulate their needs going forward

Fostering Wonder

Criteria:

- Model comfort with uncertainty
- Safe environment for questioning asking
- Inquisitive and open-ended language

Building Deeper Thinking

Criteria:

- Facilitate product confusion
- Collaborate with peers and share expertise
- Demystify the draft and feedback process

Criteria:

- Revisit the initial gap in knowledge
- Identify new questions moving forward
- Sharing their new knowledge

CONCLUSIONS & NEXT STEPS

Key Learnings:

- Don't assume
- Our students are curious, but risk adverse
- Teachers have strategies
- Limited research in curiosity for classroom teachers Next Steps:
- General classroom environment
- Curious mindset and motivation
- Intervention-based study
- Curiosity Profiles

Maclellan, E. (2008). The significance of motivation in student-centred learning: a reflective case study. Teaching in Higher Education, 13(4), 411–421. https://doi.org/10.1080/13562510802169681 Pekrun, R. (2019). The Murky Distinction Between Curiosity and Interest: State of the Art and Future Prospects. Educational Psychology Review, 31(4), 905–914. https://doi.org/10.1007/s10648-019-09512-1

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Recognising the Gap

- Strategy Examples:
- Give one, get one
- See, think, wonder
- Four corners
- Strategy Examples:
- Expanding image
- Question Formulation Technique (QFT)
- Three Acts
- Strategy Examples:
- Problem based learning
- Peer feedback conference
- Socrative circles

Mastery & Beyond

- Strategy Examples:
- Showcasing & Debating
- Future problem solving
- Orbispace