

How Americans voted in 2024



- "The economy ranks as the most important of 22 issues that U.S. registered voters say will influence their choice for president" (Brenan, 2024)
- "for many voters, including women, inflation was probably as much if not more of an issue" (Catterall, 2024)
- "The public's judgment of his [Biden's] performance on two core issues—inflation and immigration—was harshly negative, and Harris inherited this disapproval" (Galston, 2024)"

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How Americans voted in 2024

THE UNIVERSITY OF MELBOURNE

despite ...

- "Some of the Harris team's final measurements suggested his late wild antics were breaking through and that they believed voters were weighing them against the former president. The election results showed the opposite" (Goldmacher et al, 2024)
- "many people following the campaign thought that women were going to turn out and that would make the difference. But in fact it didn't" (Este et al, 2024)
- Only 42% of Americans believe that Trump is honest, and 34% would describe him as a good role model (Pew Research Centre, 2024)
- 54% of Americans say they are not confident "in Trump's ability to make good decisions about abortion policy. And 59% express little confidence in his ability to bring the country closer together" (Pew Research Centre, 2024)

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Road accident



It is 8.55am. You are hurrying to go to the university for a 9am seminar. Near your destination you came across an accident involving a car and a group of cyclists. Most of them appear to be suffering injuries.

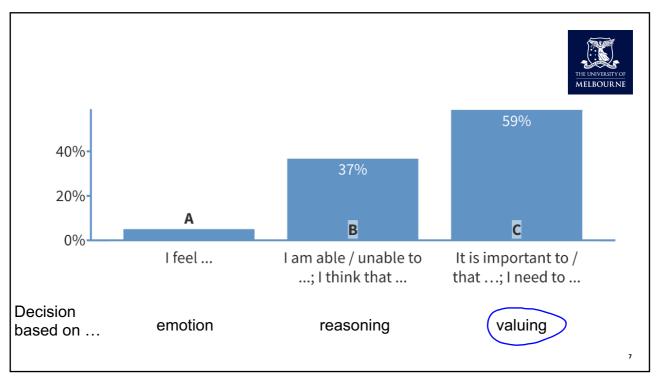
What would you decide to do?

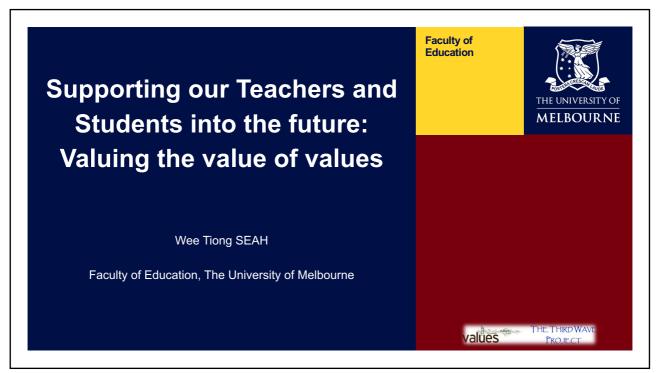
Why did you make this decision?

- (A) I feel like doing it.
- (B) I am able / unable to ...
- (C) It is important to / that
- (B) I think that ...
- (C) I need to
- (A) It makes me feel good ...



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Challenges with mathematics teaching / leading



- Mathematics anxiety
- · Negative attitudes
- Student engagement
- Real-world applications
- Mixed-abilities
-

- Mathematics anxiety
- Integrating numeracy
- Content knowledge
- Parental expectations
- ...

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The student with the yellow and red cards ...



It was some two months into the new school year.

In a Grade 1 mathematics lesson, Ms Z was leading a class discussion regarding the concept of subtraction.

A boy could be seen to be disinterested and disengaged, not participating in the class discussion. For this, Ms Z had issued him a verbal warning, before proceeding with the awarding of yellow followed by red penalty cards, as per her classroom routine.

When the lesson progressed to the group discussion stage, this boy became energised, animated and eager. However, two of his group-mates told him to simply sit there and listen to the others discuss and share.

How might you respond?

Possible approaches



- Intervene in the particular group discussion, reminding everyone of the importance of working together
- Intervene in the particular group discussion, chiding the two students for not being inclusive of their group-mate.
- Talk to the boy after class, finding out why he seemed to be disengaged during the class discussion, and how he felt during the group discussion.
- Do nothing. Allow the classroom dynamics to 'punish' the boy for his misbehaviour earlier.

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Our chosen approach / action ...



... reflects what we value in mathematics teaching

... would also teach students what ought to be valued in mathematics, maths education, and school education



We need to be aware of our values which guide our professional decisions and actions, and ensure that they are consistent in the minds of our students / colleagues

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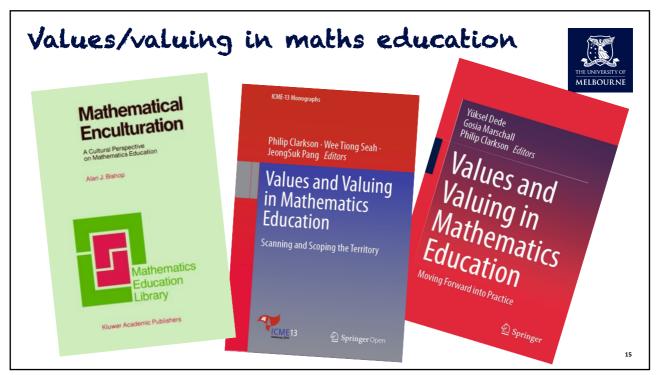
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1. Expectancy Students' beliefs about how well they will do on upcoming tasks 2. Value • Attainment value • Intrinsic value • Utility value • Cost 1. Expectancy Students' beliefs about how well they will do on upcoming tasks Motivation (achievement related choices)

Expectancy-Value Theory

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(Eccles et al, 1983)



Values = ?



Anything that is important to us (in teaching and learning)

A motivating force

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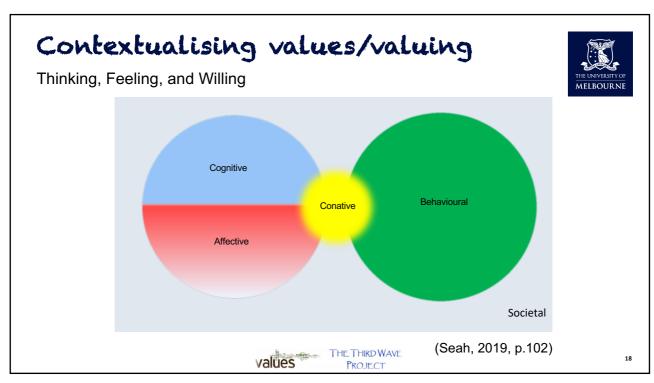
As the saying goes ...



values THE THIRD WAVE PROJECT

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Values not only regulate affective and cognitive functions, but also underlie motivations that guide decisions / actions.

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Values - what's important Beliefs - what's true, what's correct



Values	Beliefs
Practice	Regular practice is needed in order to do well in mathematics.
	Practising with algorithms is more effective than practicing with worded problems.
Confidence	Students' confidence leads to better mathematics outcomes.
	Boys are more confident about their own mathematical capability compared to girls.
Rationalism	Teachers expect students to demonstrate a logical and rational argument through the steps in the solution.

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Professional values



I. Lesson observation

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Professional values



Values:

☐ Mastery

☐ Fluency

☐ Collaboration☐ Mentorship

□ Openness

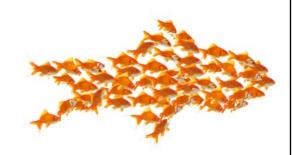
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With the values approach ...



- Challenges in classroom (mathematics) teaching and leading
- Students' want-to-learn
- Mathematical Wellbeing [MWB]
- Values alignment
- The roles of sociohistorical philosophies (eg: Confucian, Taoist, etc)



Beyond the classroom, beyond the grade level

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Fostering enabling values



- Inculcating
- > Prioritising
- · Values clarification
- · Teacher modelling
- · Explicit teaching



What values?



- Mathematics proficiencies (ACARA, 2009);
 - Fluency
 - · Problem-solving
 - Reasoning
 - Understanding
- Mathematical Wellbeing (Hill et al, 2022)
 - · Accomplishment
 - Cognitions
 - Engagement
 - Meaning
 - Perseverance
 - · Positive emotions
 - Relationships



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I had started with this ...



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