

Do Schools Kill Curiosity?

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Experience sampling via Microsoft Teams and Survey Sparrow

Descriptive, diagnostic, predictive and prescriptive

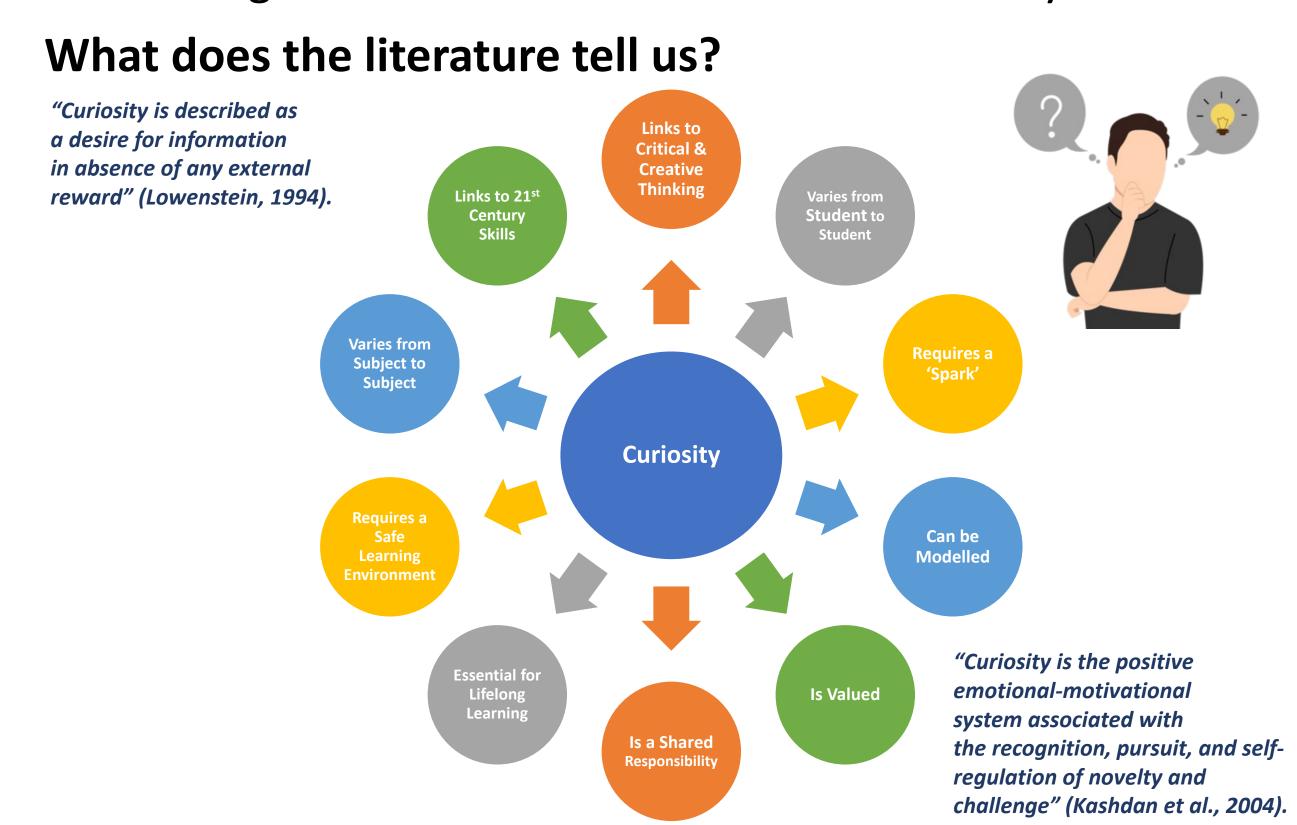


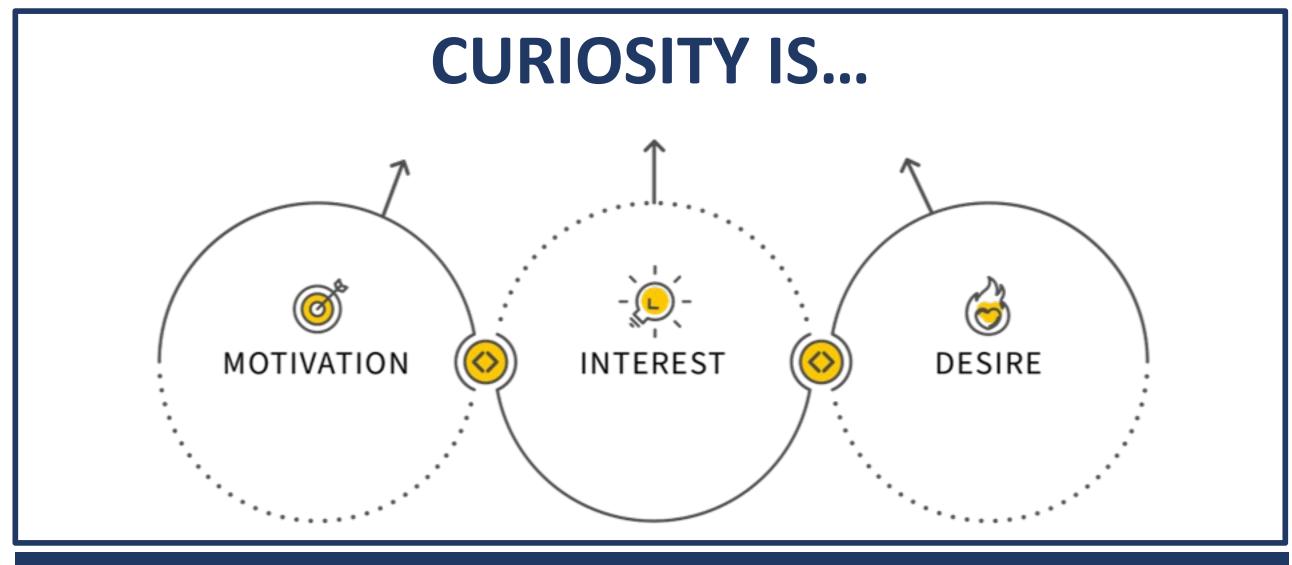
BACKGROUND & CONTEXT

- Co-educational Christian school Years K-12, 1200 students.
- Focused on evidence-based teaching and learning practices embedded into a philosophy that values lifelong learning.

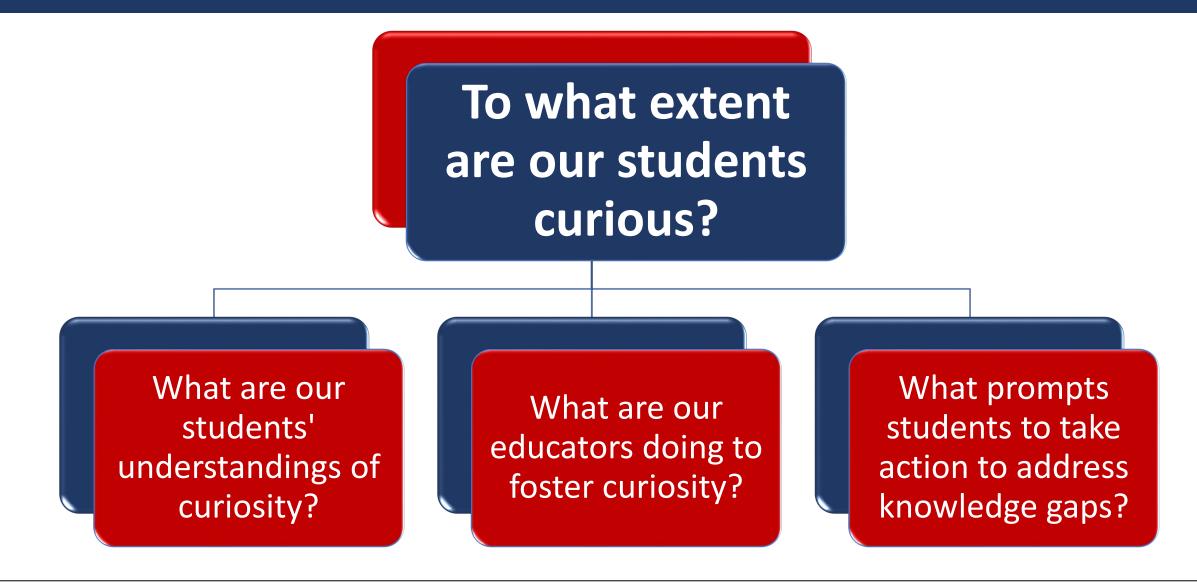
Research Focus

We are interested in the relationship between curiosity and the learning environment. We want to better understand the influencing factors that drive or diminish curiosity.





RESEARCH QUESTIONS



Methodology Participants: 421 students from Years 7 to 12 Mixed methods Procedure Student surveys (2023) Small sample interviews (2024) Experience sampling (2024) Process In 2023 students completed an online survey. Survey data was analysed and interviews were conducted with selected students in early 2024. Students have also participated in experience sampling in pilot classes.

ANALYSIS & RESULTS

Measures

Data Analysis

Student Interviews

Question One: How do you define curiosity?

Motivation - 69% of students demonstrate a strong alignment with motivation driving their understanding of curiosity, using words like: "drive", "desire," "willingness," "urge," and "need to know".

Survey based on Kashdan's 5DCR

Interviews and response analysis

<u>Interest</u> – half of responses (**50**%), indicate **individual interpretation of curiosity aligning with interest**: "interested in something," "sudden interest,"
"finding new ways to do," and "wanting to find out more".

<u>Desire</u> – More than half (**56**%) responded with frequent occurrences of synonymous words or phrases: "desire to explore" and "desire to know everything".

Question Two: How does curiosity make you feel?

<u>Positive Emotions</u> –**a majority (81%) delineate curiosity in a positive capacity**: joy, excitement, eagerness, and a sense of purpose. They describe feeling happy, intrigued, and determined.

Negative Emotions – a minority (19%) associate it with negative emotions: "anxiety" and "worry", also noting a "fear of the unknown".

Question Three: When do you feel most curious?

<u>Personal Space</u>: Few students (31%) suggest personal space promotes curiosity. This suggests that personal space provides a conducive environment for introspection.

<u>Learning Environment</u>: Many students (69%) believe that curiosity often arises in subjects that individuals find engaging or enjoyable.

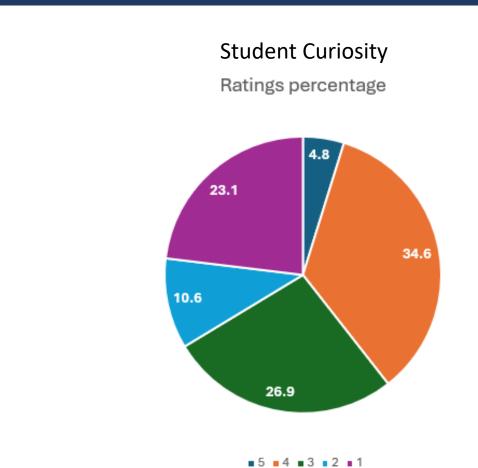
Question Four: What stops you from being curious?

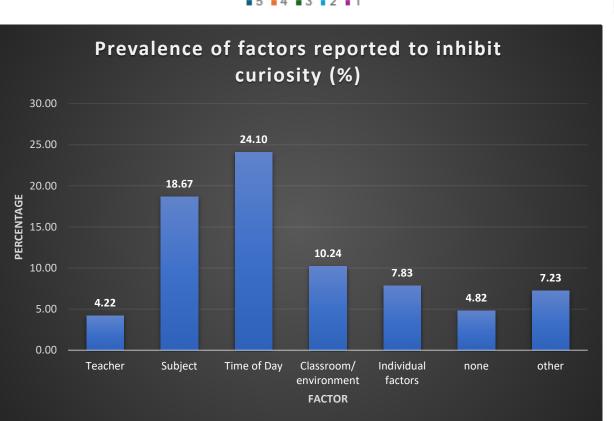
Intrinsic Inhibitors: 50% of students demonstrate there might be a struggle with finding the answer, a lack of motivation or interest in subjects they find boring, a fear of the unknow, or fear of stepping outside one's comfort zone.

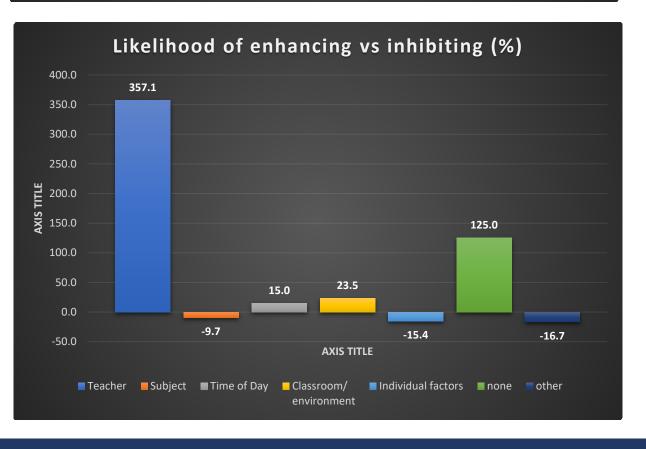
Extrinsic Inhibitors: 25% of students describe an extrinsic inhibitor, including descriptions of a rigid curriculum and completing tasks within a set time frame that leave little room for independent exploration. Additionally, repetitive learning experiences that fail to provide new information stifle curiosity.

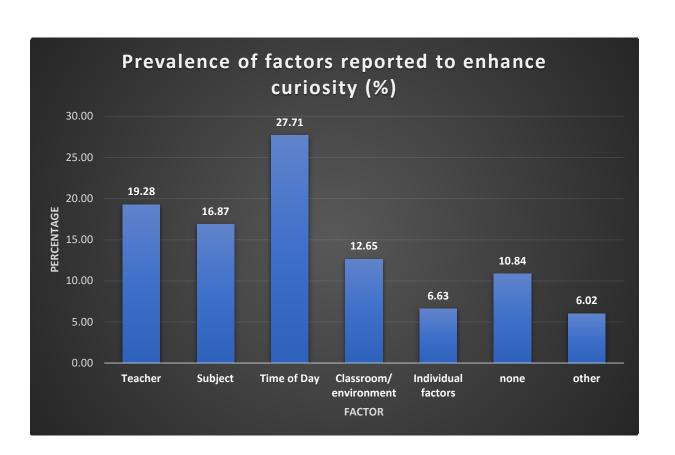
25% of students had no response.

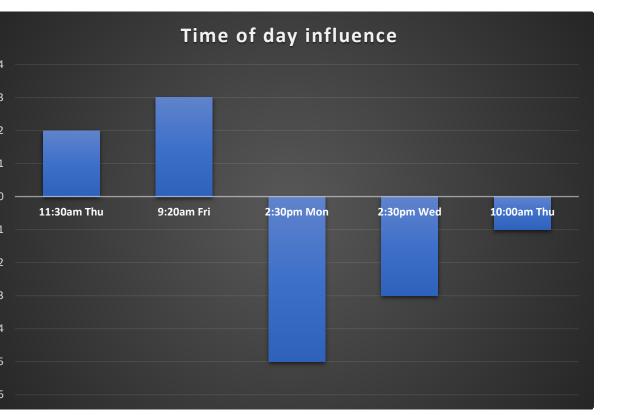
Preliminary Findings from Experience Sampling

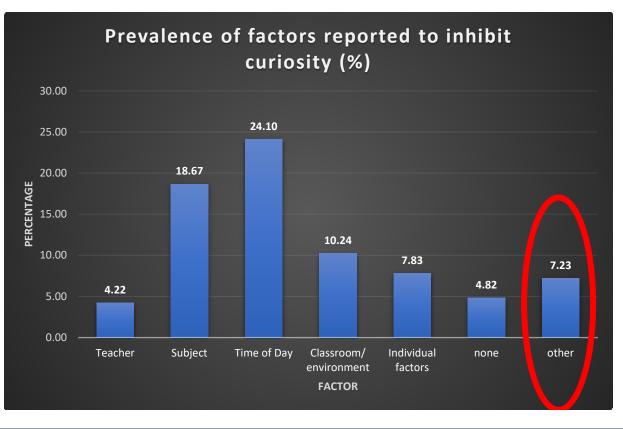












Preliminary Implications for Teaching & Learning

In regard to student curiosity:

- The teacher appears to have a large influence
- The time of day might play a role
- Issues external to the classroom/subject are likely important

Key Learnings

- 1. It is possible to collect experience sampling data in the classroom in a relatively unobtrusive manner.
- 2. Students have some awareness of their level of curiosity.
- 3. Students have an awareness of what enhances and inhibits their curiosity.
- 4. Possible affirmations:
- The teacher has a large (perhaps the largest) influence on student curiosity.
- Time of day can influence curiosity.

NEXT STEPS

In 2025 and beyond:

Finalise the latest data collection – experience sampling Analyse the data

Assuming we've detected trends, investigate possible interventions Formulate research informed trial interventions