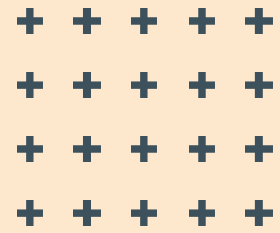


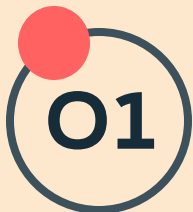
A Hong Kong case: Learning through design thinking – what we know and what we don't

Jessie Chow



Faculty of **Education**
The University of Hong Kong





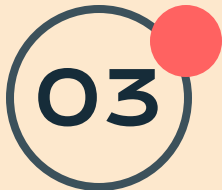
The context



Key findings



Outline of
presentation



The lacuna



Your feedback



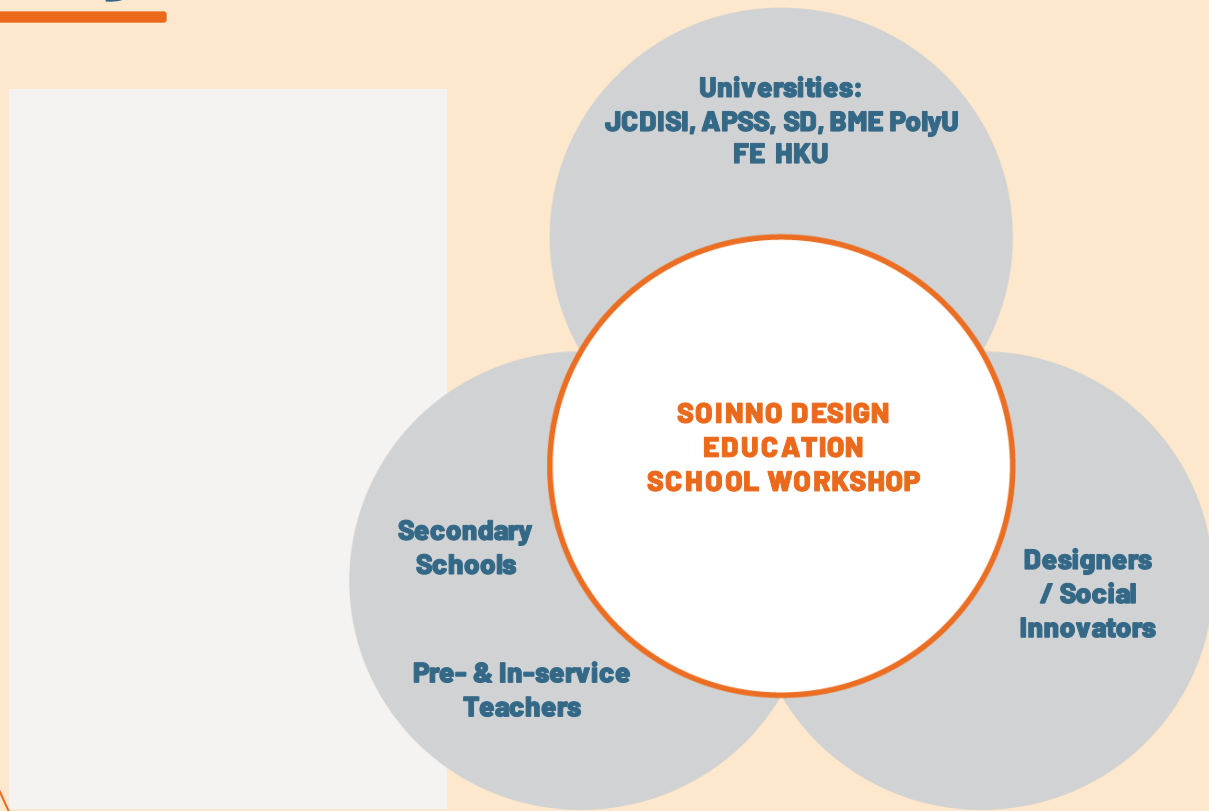
01

The context

Visual tour for the 3-year project



Project Model & Data Source



Teaching and Learning Tools



Reflective Learning

Pre-service teachers designed different reflective tools and activities and guide these secondary school students to connect their experiences to a wider perspective through reflection



Design Making

Highlighting the importance of **making** in design, and its role as a thinking process



The Installation

Case:

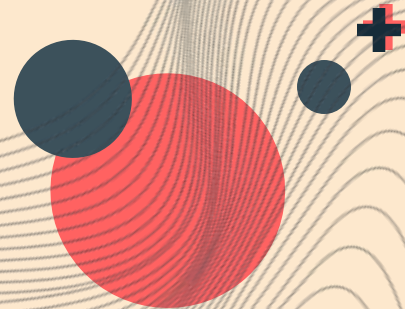
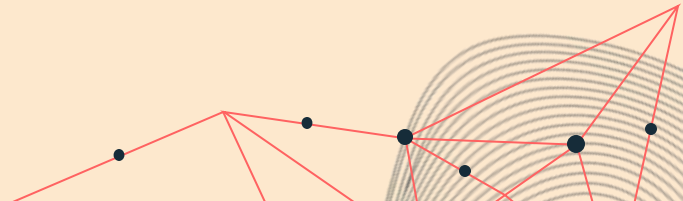
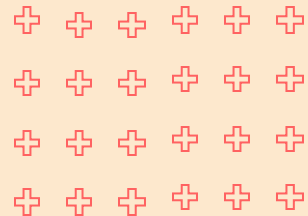
Toi Shan Association
College





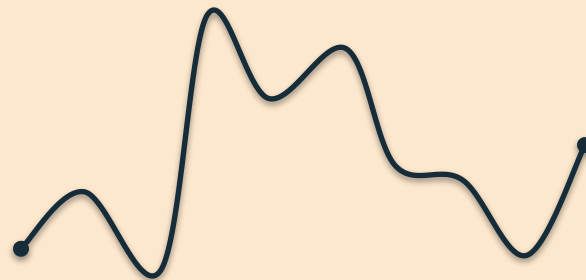
Whoa!

What is your mental image for
design thinking?

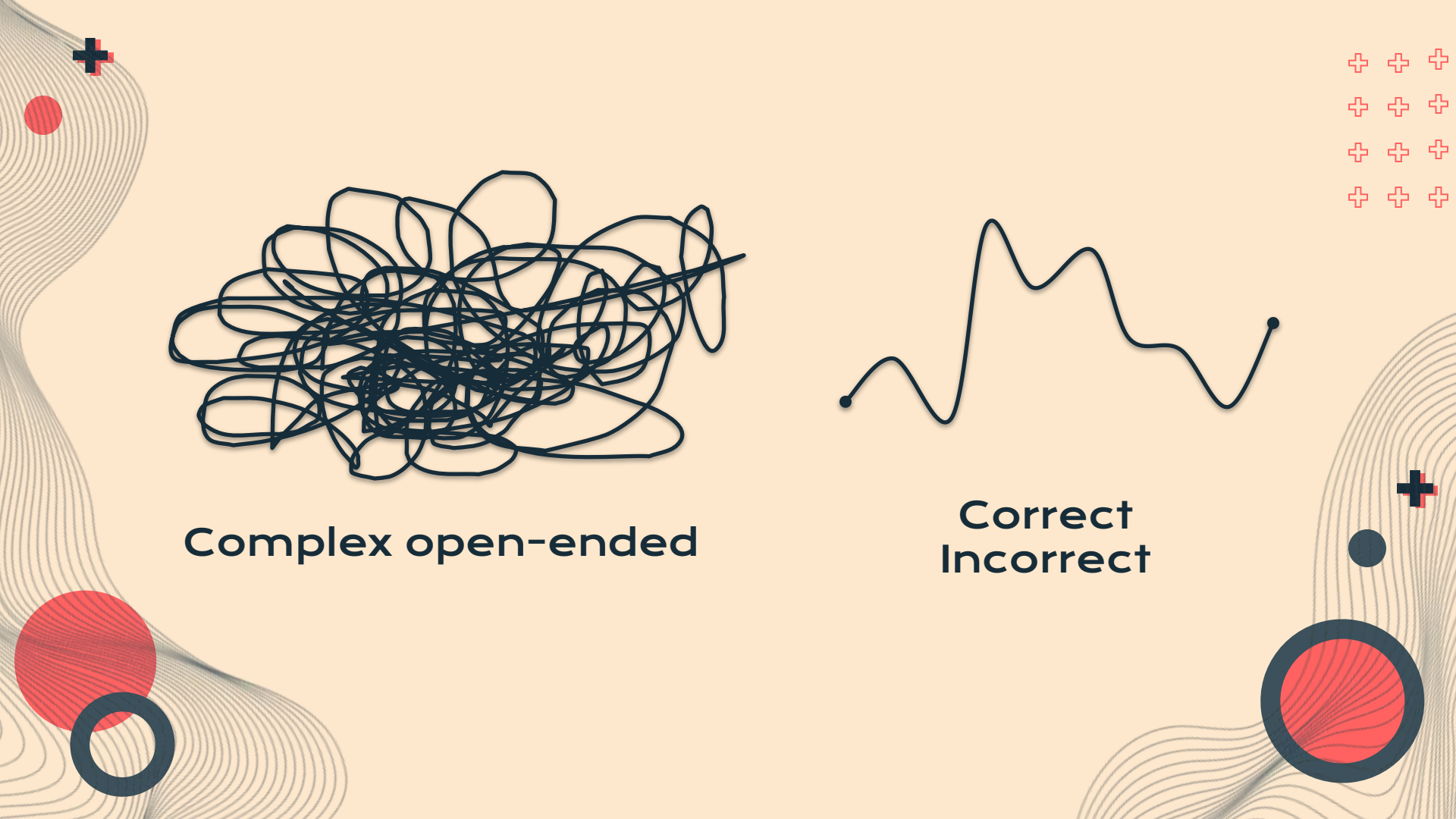




Complex open-ended



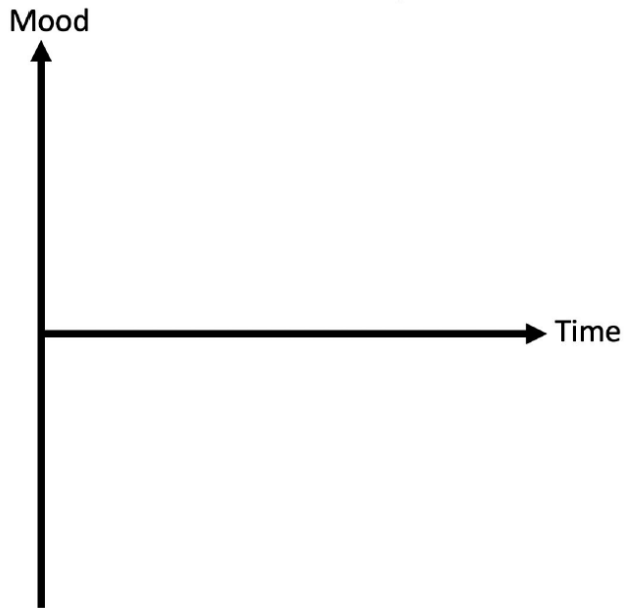
**Correct
Incorrect**



心情折線圖

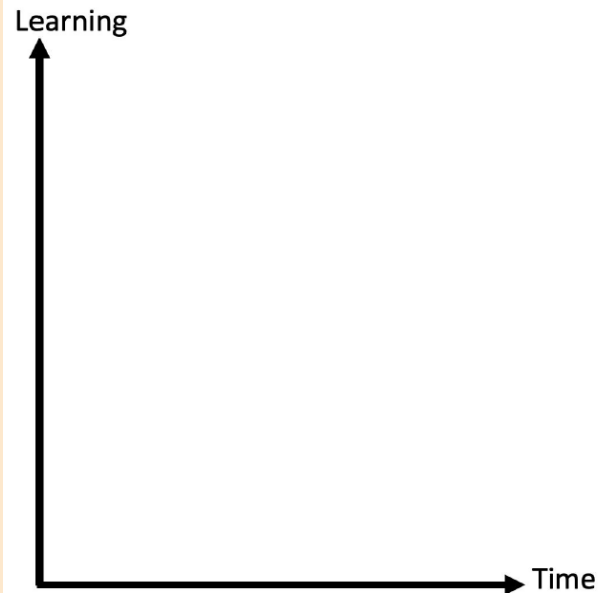
Q: 畫出折線圖, 代表你
喺整個設計過程中嘅心
情變化。

Mood Line Graph



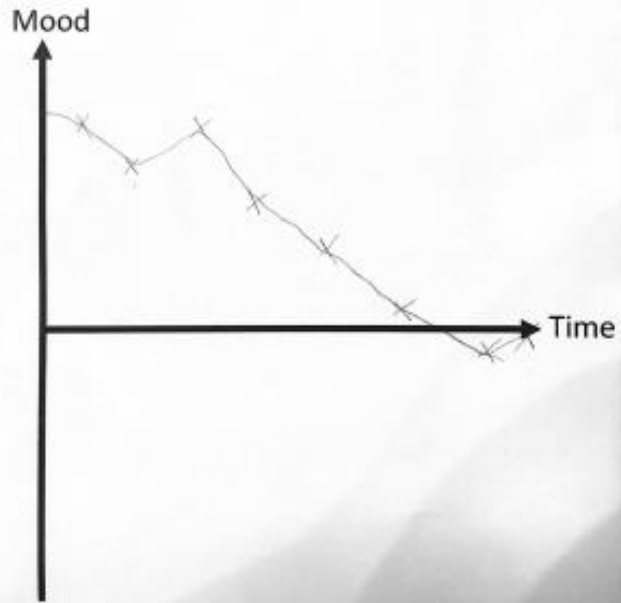
學習曲線圖

Learning Curve

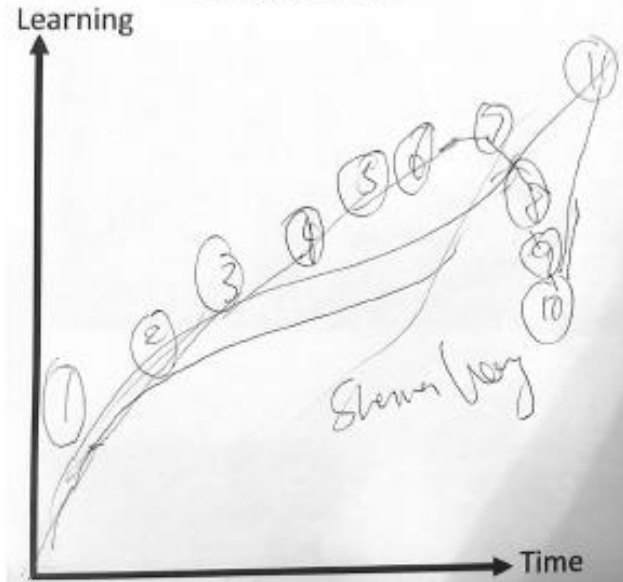


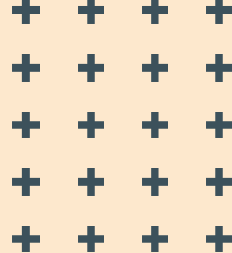
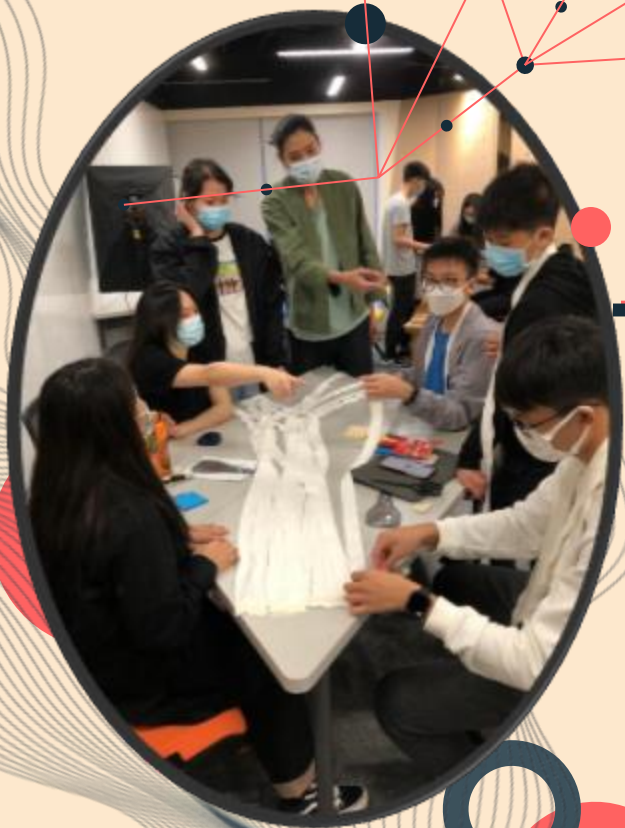
Sharon Wang

Mood Line Graph



Learning Curve





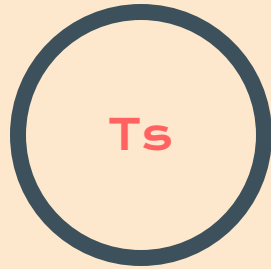
02

Key findings

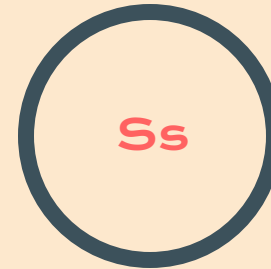
From qualitative data



Students' learning outcomes



- Empathy
- Generic skills
- ? Academic knowledge



- Metacognitive skills (critical thinking, problem-solving & creativity)
- Collaboration
- Knowledge specific
 - Empathy



In their words



‘我覺得係呢個工作坊入面，我增加左我的解難能力。例如平時學數學，遇到唔識做嘅題目，我會選擇跳過，而唔係諗佢點做，因為佢真係好難。但係係工作坊，因為我地係做一架車，當中有好多問題，例如要點改車軟，帶嘅問題。我地唔係一次過成功，而係要不斷嘗試，去搵唔同資料再嘗試，先可以點做，點樣可以固定，要逐次逐次嘗試，令到我平時返學都可以利用呢啲解難能力。’

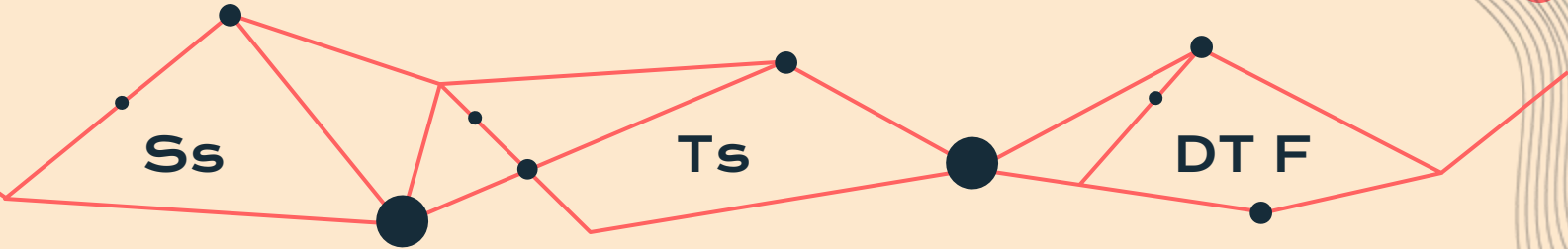
‘有時候諗嘢，面對呢個問題就淨係會諗呢個問題，唔會去諗下佢嘅源頭係點，或者去諗下關於後面更好的解決方法。即係例如而家呢個問題就淨係解決而家咁...’

‘設計思維訓練到我諗多啲同諗快啲。..... 例如用到係我地上堂嘅時候，好似通識堂入面老師好鍾意做辯論，老師會叫你諗point，然後分好壞，有時你同你嘅組員其實都諗唔到，或者淨係想靠組員，可能呢樣嘢都唔係幾好。我地討論嘅時間都得好短，同我地呢個設計思維嘅課程都差唔多，所以可以訓練到我地諗快啲，唔好諗就放棄。.....如果係一組人嘅話，就會有責任去諗，我會逼自己去諗，唔會諗唔到就直接放棄。’

‘我覺得對學習有用，因為有時考得唔好嘅時候就會諗係咪溫習嘅方法出現咗咩問題，好似依家大家學習都係死讀書，好少會去諗有咩方法會令到你更加有效去溫習。設計思維就幫到呢樣嘢，因為要諗到一啲方法系對自己有效同方便，要實行到嘅方法。’

‘即是唔係歷史讀其他科都係有理論要背，會有固有嘅嘢去限制你嘅想法，即時使通識都係，都係有個框框俾你，你可以放自己創新諗法嘅空間好少，但係可能對於社會，我地第時出嚟做嘢最需要嘅反而係呢啲創新思維，前人諗唔到嘅嘢，而我哋諗到先可以令個社會進步。’

Challenges



Learning by doing

Skills deficit (DT stages)

Content delivery

Problem solving

COVID

Student factors

Conflict resolution

Teamwork

Time constraints & COVID



Pre- vs. In-service teachers

Applying DT in (future) classroom setting

Teaching, learning & facilitation

Insight & application

Social innovation

Facilitation & training

Time constraints

Alignment with curriculum/ assessment

Some tips from DT facilitators

What are the lessons to be learnt?

1

Attitudes
& mindset

2

Deliverables

3

DT process

4

Scaffolding

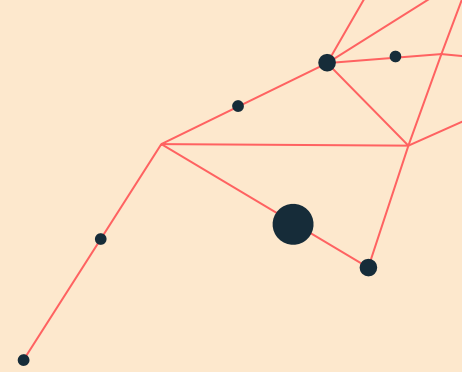
5

DT tools

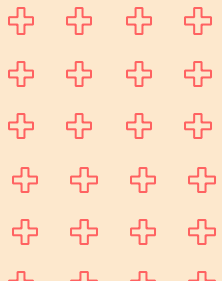




03



The lacuna





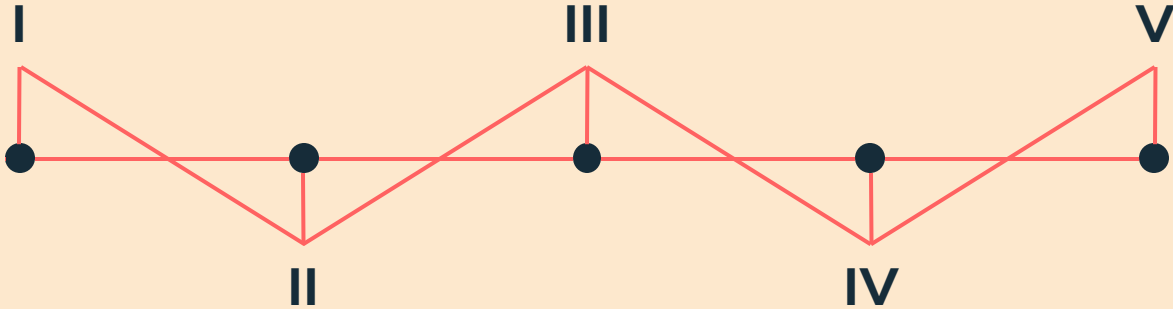
Some unanswered questions...



Nurturing students for the future, not our past

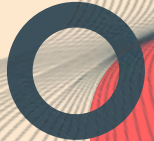
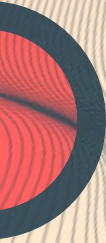
Process vs. outcome

3-tier model of intervention?



Knowledge:
ECA or co-curricular

Skills transfer



Project Contacts

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04

Your feedback

