

48-hour PBL Program



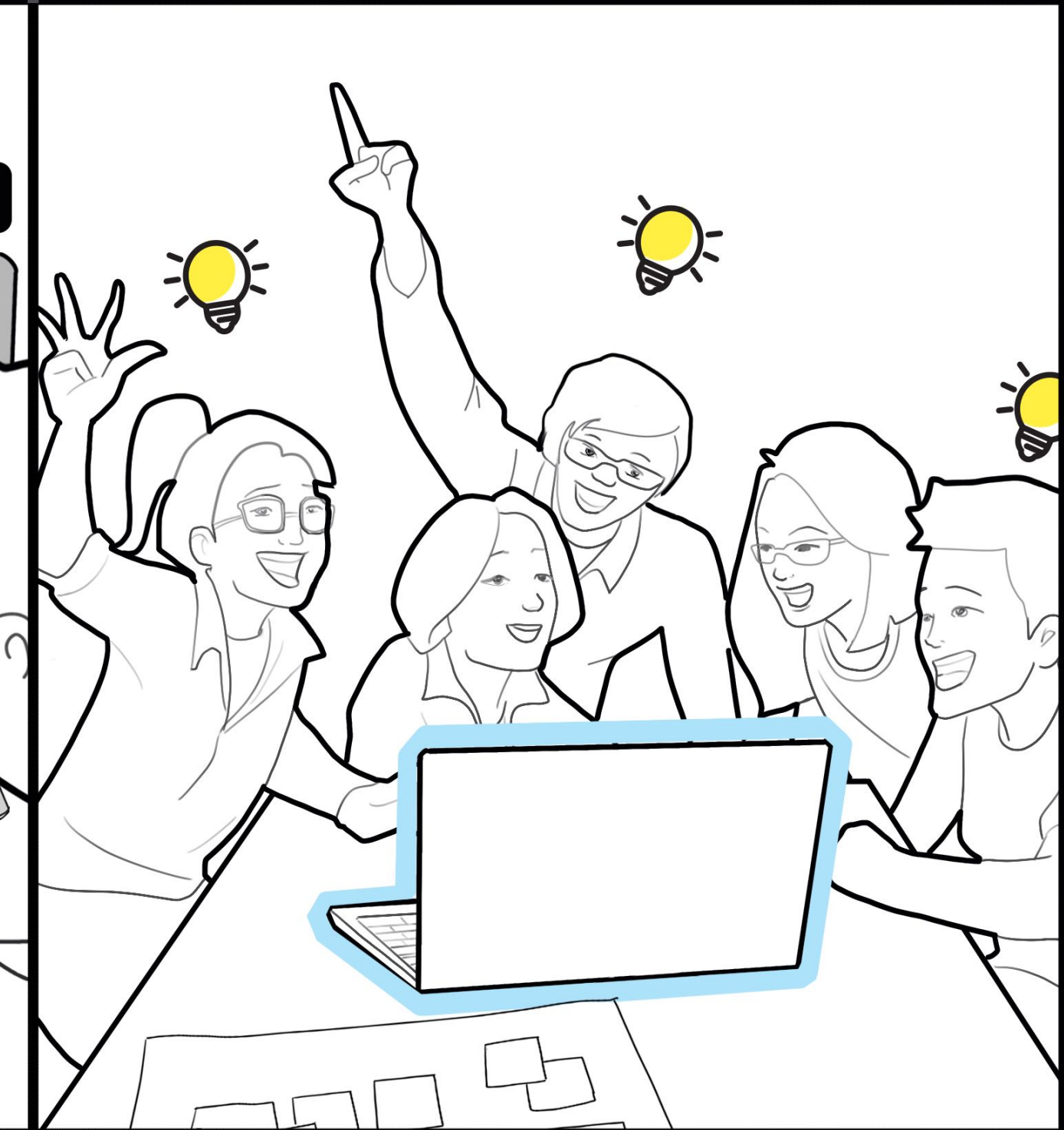
Run Out of Ideas



Use LLM



Get creative inspiration



Embrace Your Every Idea: Leverage Large Language Models to Support Creative Project-Based Learning

2023/05-2023/09

Use it or not?

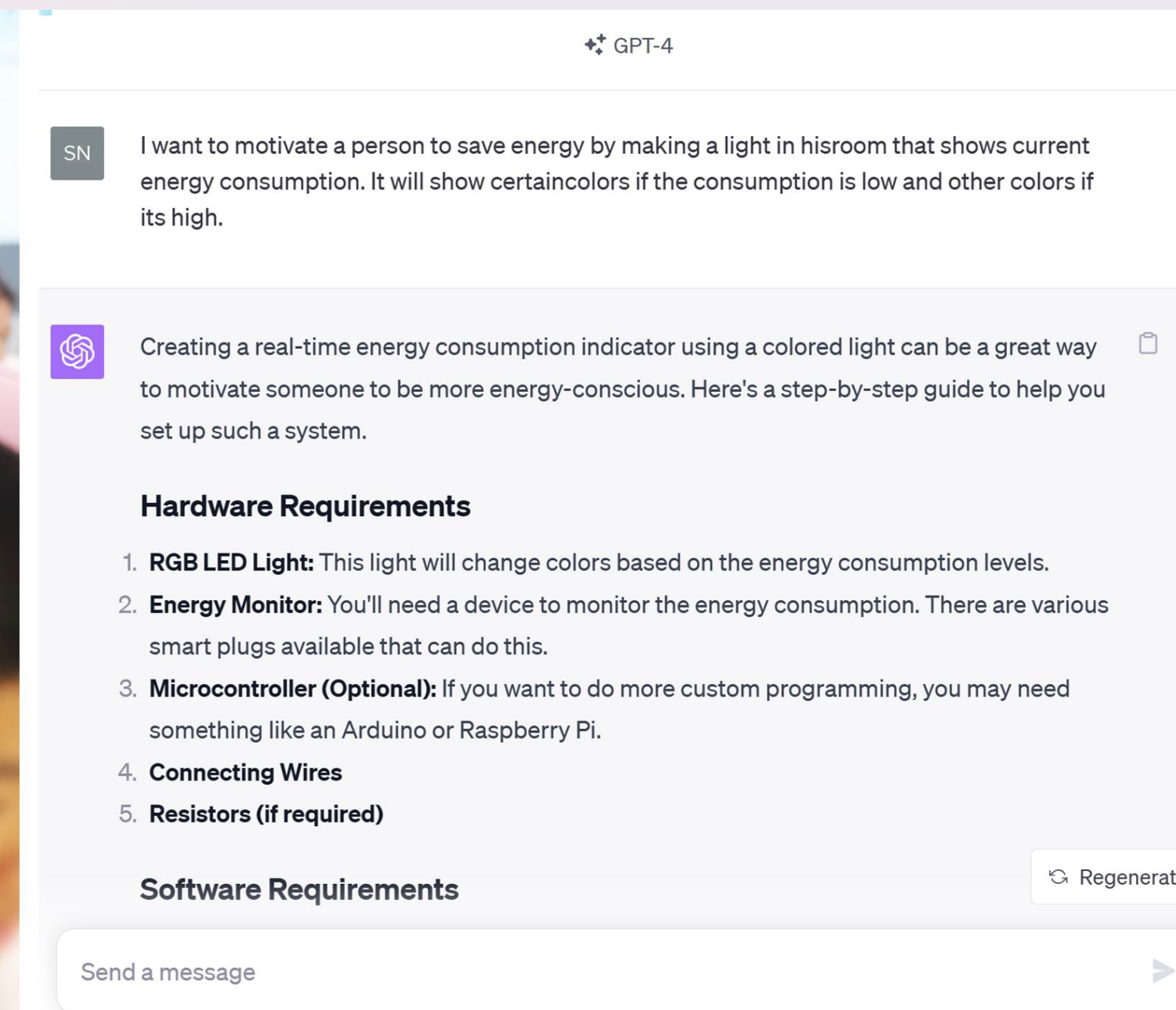
LLMs influence students' learning process

Creative support tool?

LLMs' ability of generating content

Bridge the gap

- LLMs' practical application in real-world classroom for K-12 students.
- Project-based learning: solve complex real-world problem with creativity.



K-12 students

- Limited exposure to LLMs
- Hard to analyze complex real-world problems
- Limited professional knowledge

Observation Study

- No enough guidance and constraints
- Hard to analyze complex real-world problems
- Limited professional knowledge

Design appropriate guidance is important.

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LLMs



AI for sustainability

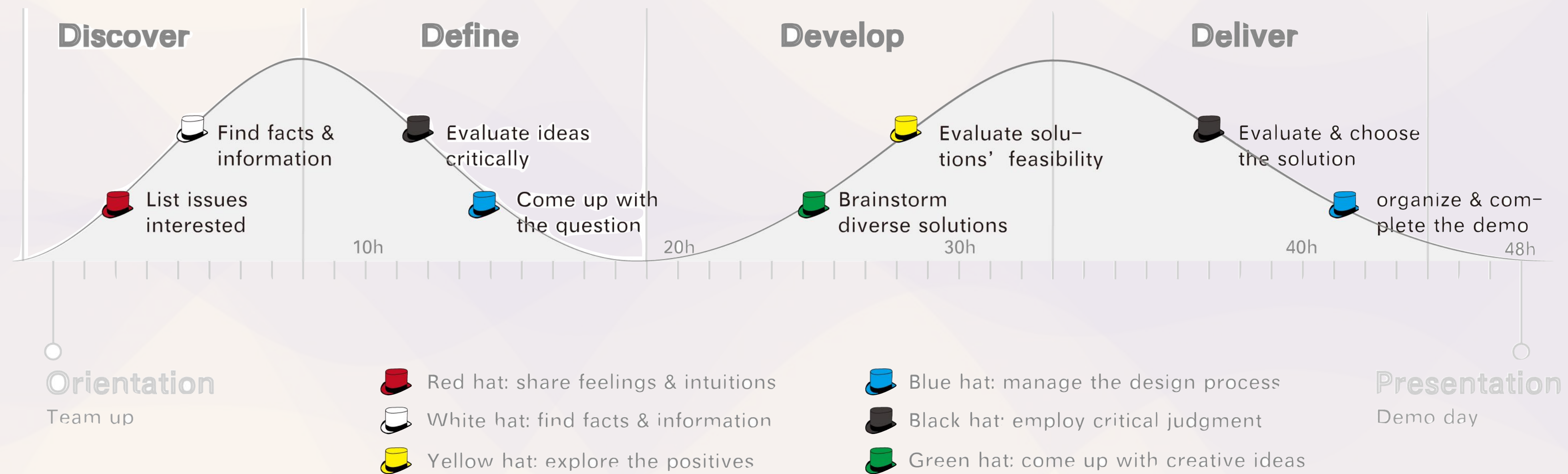


Mentoring & Usage mode



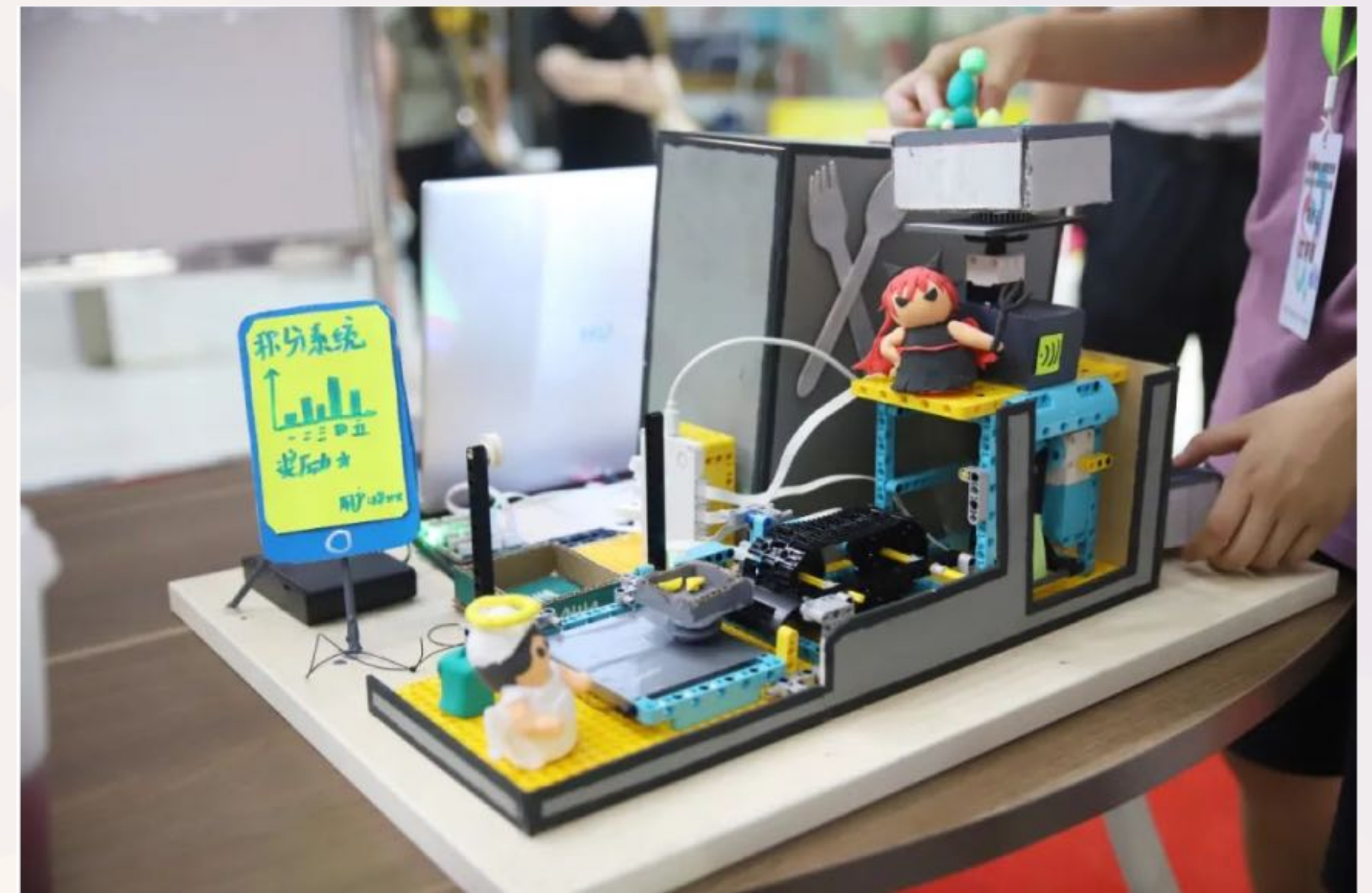
Design appropriate guidance is important.

Design process & Thinking tools



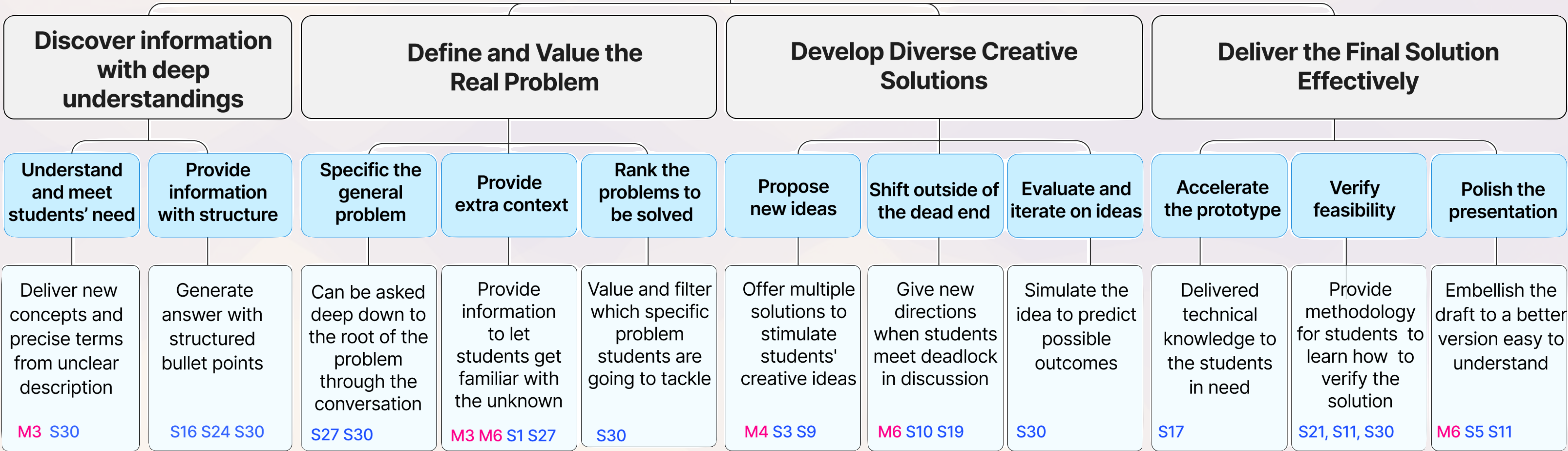
Findings

“LLMs would respond to you no matter what you say. In other words, the LLMs can provide immediate feedback, especially with positive and constructive ideas. The students can realize that their ideas are being taken seriously, which is the first step to encouraging creativity.”



Findings

LLMs Boosting Various Stages of PBL



Ambivalent perspectives on LLMs in creativity: from students & mentors

