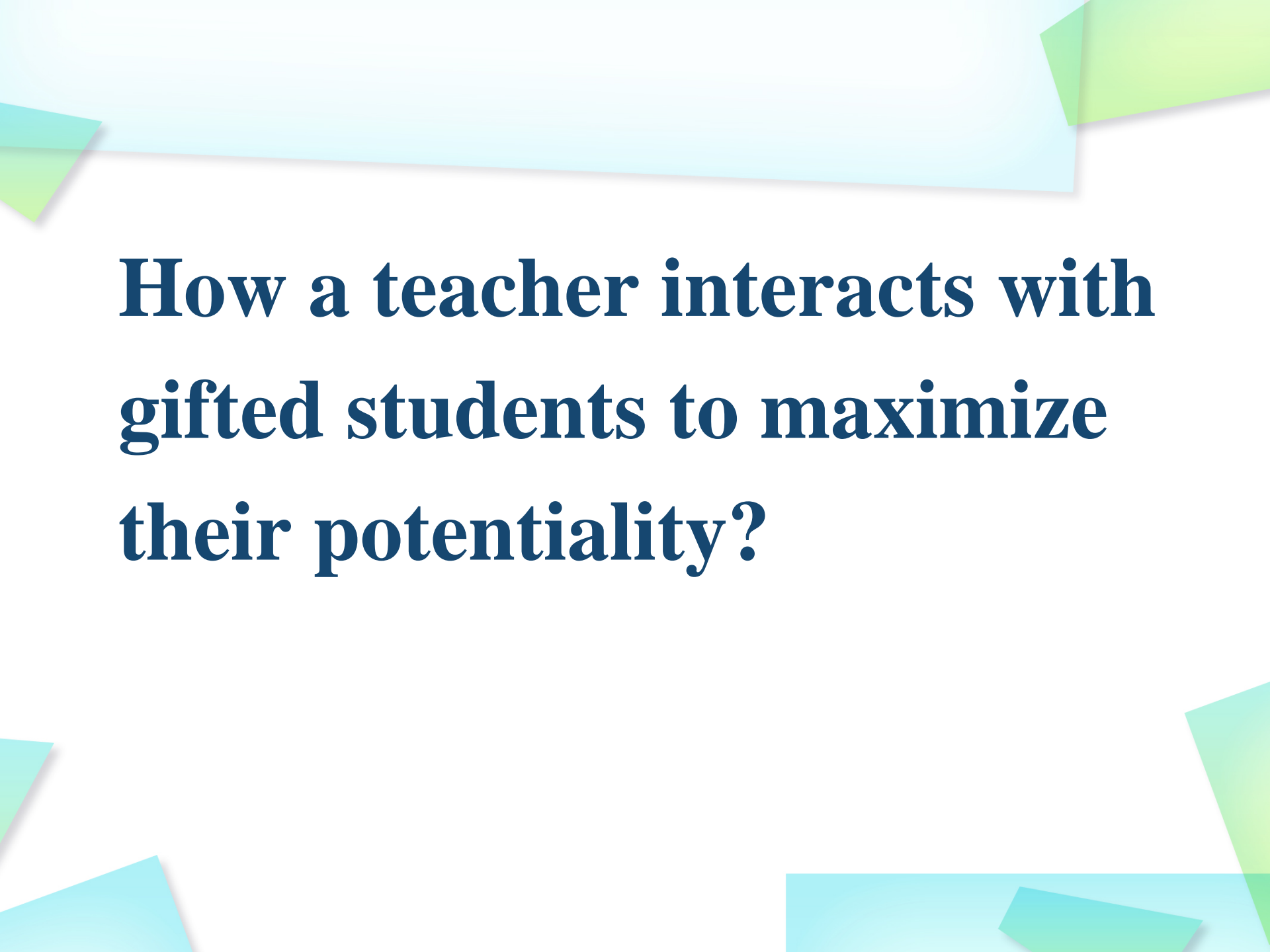




Gifted Education-Creativity Nurturing

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**How a teacher interacts with
gifted students to maximize
their potentiality?**

Issues of Gifted Education

- ◆ **The goal of gifted education**
- ◆ **Phenomenon of gifted education**
 - **speed and accuracy**
 - **quality of learning and amount of learning**
 - **teaching and digesting**

What is Creativity

Final product ?

Totally novel in history ?

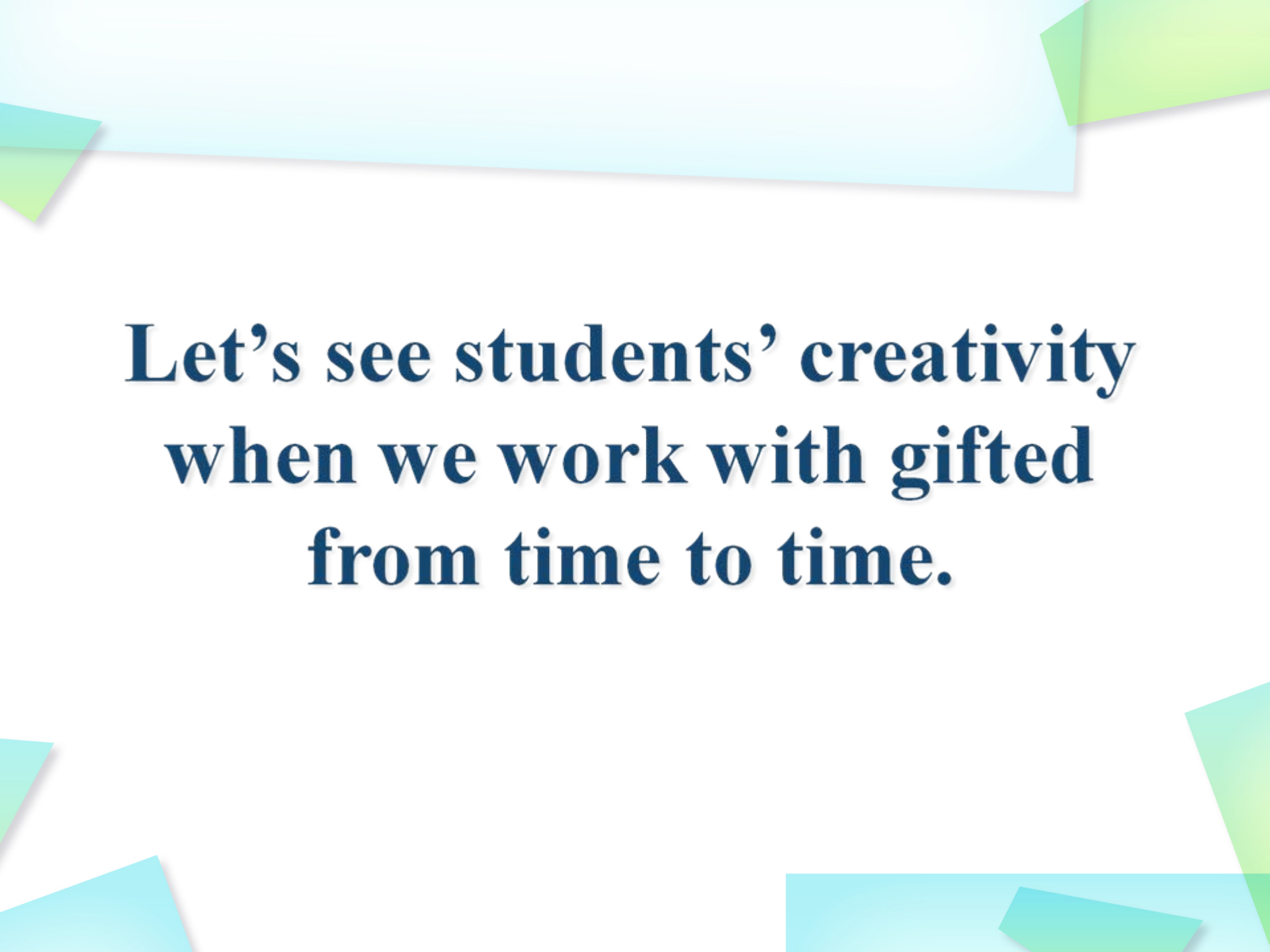
Producing all by oneself ?

How to Nurturing Creativity

- ◆ Offer gifted students opportunities to investigate and present their original ideas.
- ◆ The teacher should be creative by himself.
- ◆ Appreciating the gifted students' idea
 - It doesn't matter whether their idea is **good or not**.

Key Characteristics of Creative Teachers

- ◆ **The teacher is sensitive to student ideas**
- ◆ **The teacher appears to have the requisite domain knowledge base**
- ◆ **The teacher is able to engage in divergent thinking**

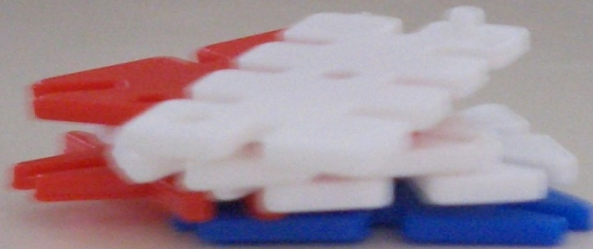


**Let's see students' creativity
when we work with gifted
from time to time.**

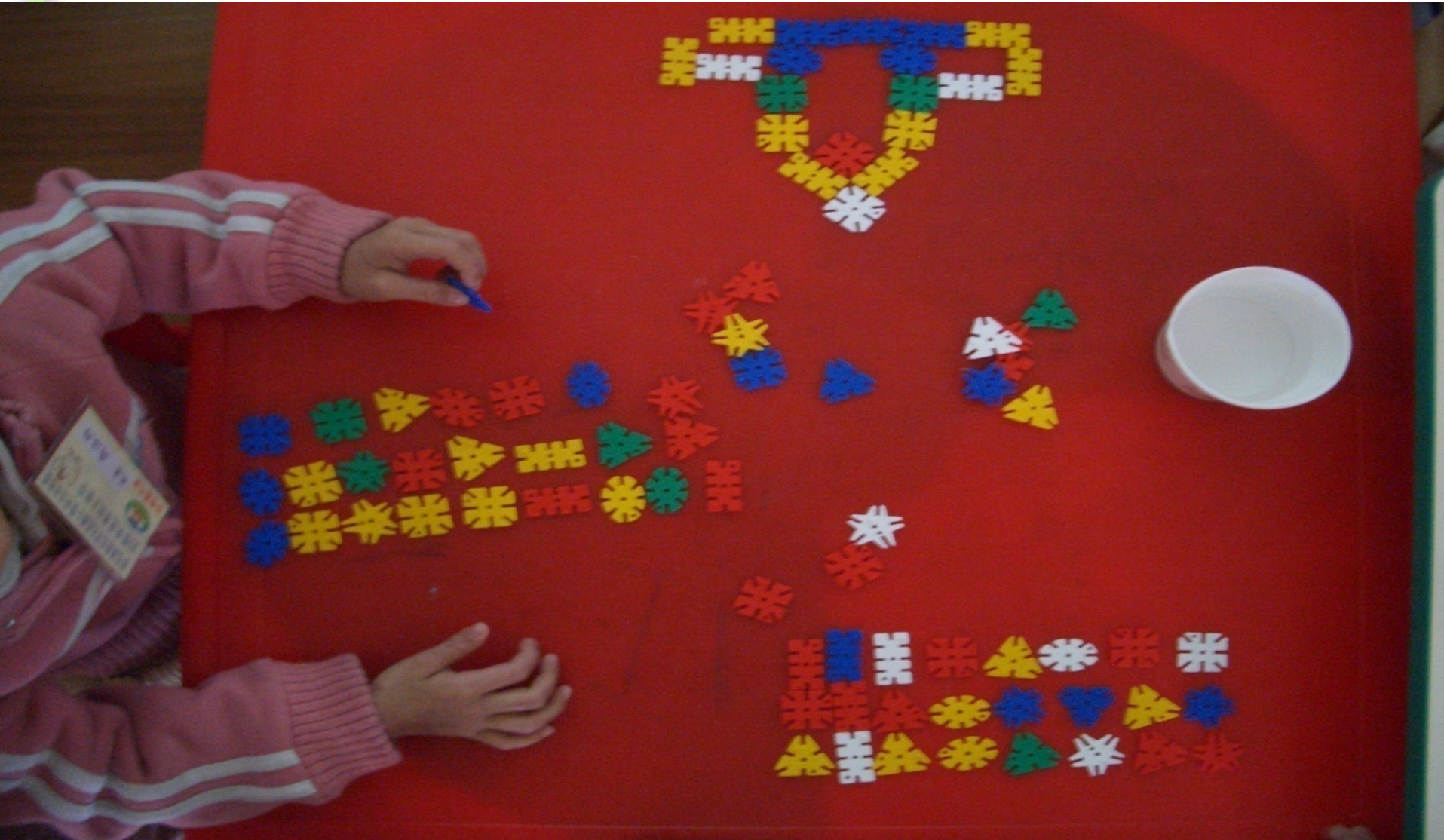
**Try Your Best to Show Me How Many
Flakes Do We Have?**



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Pointing out creative question

Question: The price of each train ticket for adult is 27 dollars, and is 14 dollars for kids. If we have spent 750 dollars to get 35 tickets, then how many kinds (y) and adults (x) do we have?

$$\begin{cases} 27x + 14y = 750 \\ x + y = 35 \end{cases}$$

How can we subtract dollars from the number of tickets?

Handwritten solution on a chalkboard:

設 $x =$ 成人張數 $x=30$
 $y =$ 兒童張數

$$\begin{aligned} 27x + 14y &= 750 \\ x + y &= 35 \end{aligned}$$
$$14x + 14y = 490$$
$$27x + 14y - 14x - 14y = 750 - 490$$
$$13x = 260$$

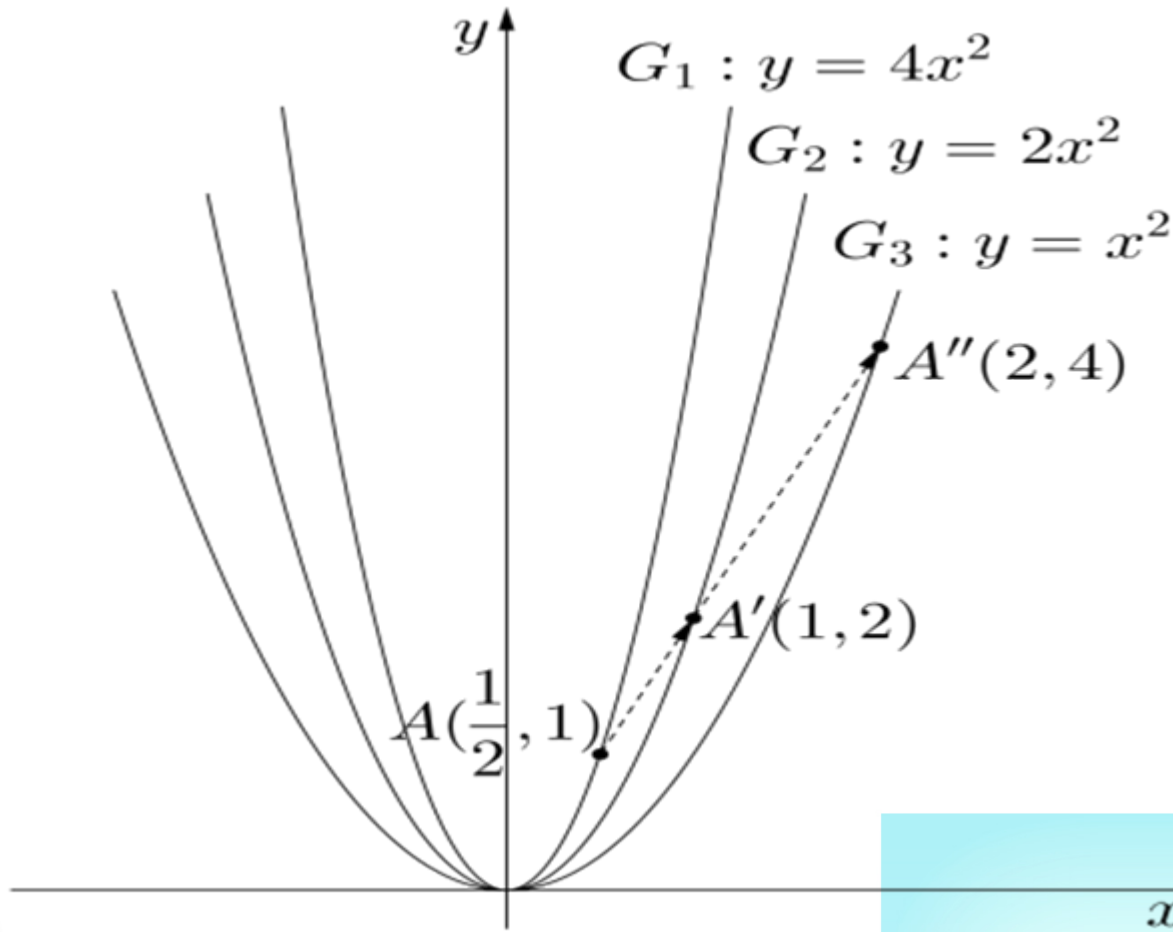
A New Idea to Solve System of Linear Equations

- ◆ **Problem:** When will the long and short hands meet between three and four o'clock?



A Novel Understanding of Parabolas

◆ Do parabolas exist similarity?



Conclusions

- ◆ **Teachers of gifted should have the ability of appreciating students' ideas.**
- ◆ **The teacher is not only a facilitator to stimulate learning, but also exhibit the traits of a good learner, ready to be inspired from students.**
- ◆ **The teacher and students are co-authors of the work in the class.**

The background features several overlapping, torn-edge paper scraps in light blue and green. A large light blue scrap is at the top, with smaller green and blue scraps scattered around the edges.

Thank you for your participation.

Any comment is welcome.