



香港教育大學

The Education University  
of Hong Kong

# Promoting student agency via Variation Theory:

# Teaching for no teaching

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# Variation Theory and Learning Study in Hong Kong

- Promoted in in-service teacher education in Hong Kong since 2000
- Adopted in pre-service teacher education in Hong Kong since 2007
- Applying Variation Theory in daily teaching and learning

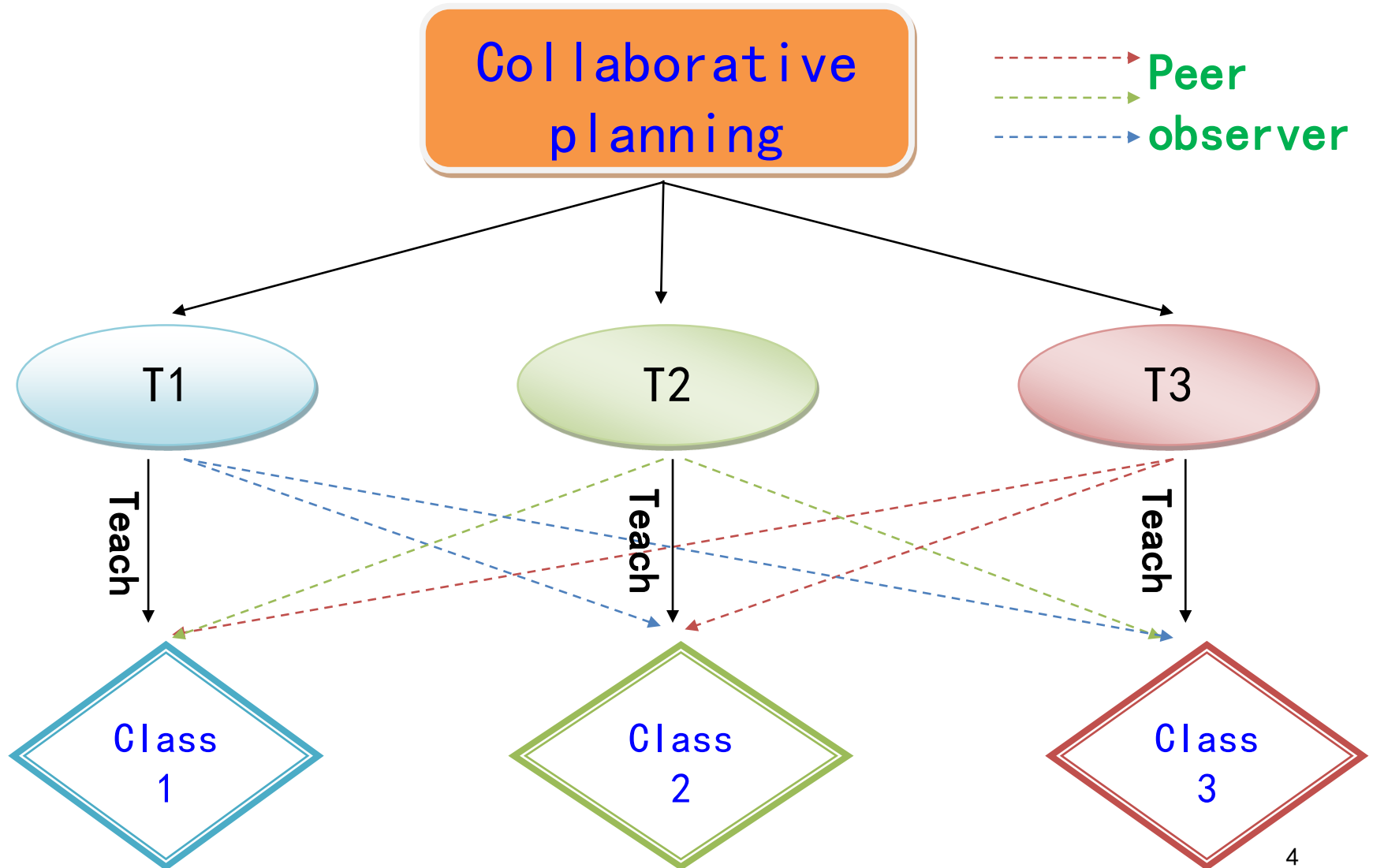
# Reflection on education

- Taught = learned? (water vapour)
- Correct answers = correct thinking? (subject-verb agreement)

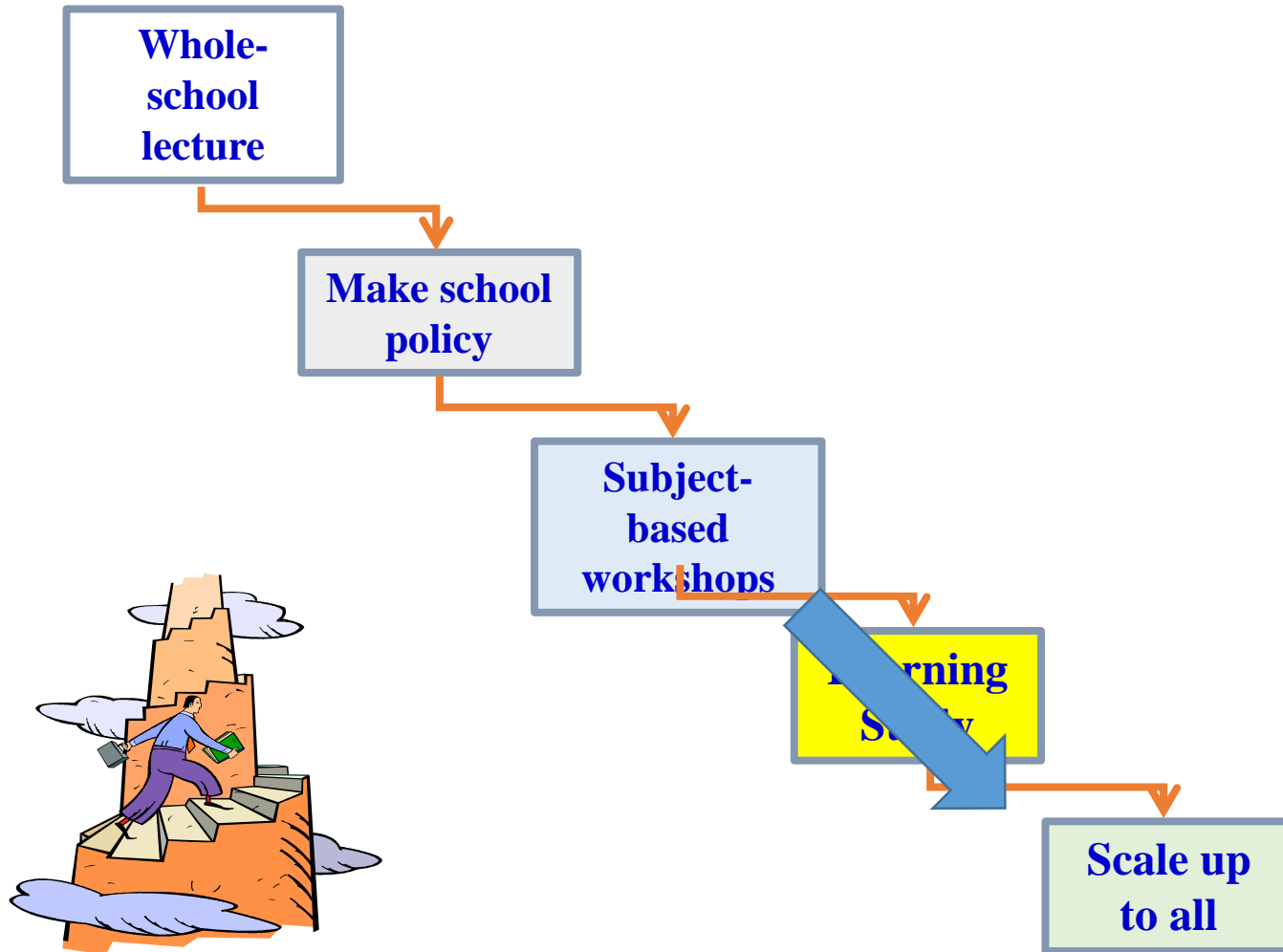


Understand student learning:  
learning gap, steps /process of learning

# LS for We-culture



# Enacting education reforms



(Zhang, 2012)

The background features a light green grid. Scattered across the grid are several squares of various colors and sizes, including purple, blue, pink, yellow, green, orange, and light purple. The text 'Learning to Learn' is faintly visible in several locations around the grid.

# Basic Education Curriculum Guide

*- To Sustain, Deepen and Focus on Learning to Learn*

**(Primary 1 - 6)**

Prepared by  
The Curriculum Development Council

Recommended for use in schools by  
The Education Bureau  
HKSAR  
2014

# The Hong Kong School Curriculum



<b>Text Types for KS1 (P1 – 3)</b>	<b>Additional Text Types for KS2 (P4 – 6)</b>	<b>Additional Text Types for KS3 (S1 – 3)</b>	<b>Additional Text Types for KS4 (S4 – 6)</b>
<ul style="list-style-type: none"> <li>• Advertisements</li> <li>• Captions</li> <li>• Cards</li> <li>• Cartoons and comics</li> <li>• Charts</li> <li>• Conversations</li> <li>• Coupons</li> <li>• Diaries</li> <li>• Directions</li> <li>• Fables and fairy tales</li> <li>• Forms</li> <li>• Illustrations</li> <li>• Instructions</li> <li>• Labels</li> <li>• Leaflets</li> <li>• Lists</li> <li>• Menus</li> <li>• Notes and messages</li> <li>• Notices</li> <li>• Personal descriptions</li> <li>• Personal letters</li> <li>• Personal recounts</li> <li>• Picture dictionaries</li> <li>• Poems</li> <li>• Postcards</li> <li>• Posters</li> <li>• Product information</li> <li>• Rhymes</li> <li>• Riddles</li> <li>• Rules</li> <li>• Signs</li> <li>• Songs</li> </ul>	<ul style="list-style-type: none"> <li>• Accounts</li> <li>• Announcements</li> <li>• Autobiographies</li> <li>• Biographies</li> <li>• Blogs</li> <li>• Brochures</li> <li>• Catalogues</li> <li>• Children’s encyclopaedias</li> <li>• Dictionaries</li> <li>• Directories</li> <li>• Discussions</li> <li>• Emails</li> <li>• Explanations of how and why</li> <li>• Formal letters</li> <li>• Informational reports</li> <li>• Jokes</li> <li>• Journals</li> <li>• Maps and legends</li> <li>• Myths</li> <li>• News reports</li> <li>• Pamphlets</li> <li>• Plays</li> <li>• Procedures</li> <li>• Questionnaires</li> <li>• Recipes</li> <li>• Telephone conversations</li> <li>• Tongue twisters</li> <li>• Weather reports</li> </ul>	<ul style="list-style-type: none"> <li>• Book reviews/reports</li> <li>• Encyclopaedias</li> <li>• Film reviews</li> <li>• Interviews</li> <li>• Itineraries</li> <li>• Letters to the editor</li> <li>• Manuals</li> <li>• Memoranda</li> <li>• Newspaper/ Magazine articles</li> <li>• Presentations</li> <li>• Short films</li> <li>• Short novels</li> <li>• Social media texts</li> <li>• Talks</li> <li>• Trailers</li> </ul>	<ul style="list-style-type: none"> <li>• Abstracts/synopses</li> <li>• Agendas</li> <li>• Debates</li> <li>• Documentaries</li> <li>• Editorials</li> <li>• Essays</li> <li>• Feature articles</li> <li>• Films</li> <li>• Minutes</li> <li>• Novels</li> <li>• Proposals</li> <li>• Speeches</li> <li>• Resumes</li> <li>• Thesauri</li> </ul>



## Nouns

KS1 (P1 – 3)		KS2 (P4 – 6)	
	Examples		Examples
Use nouns or noun phrases to <ul style="list-style-type: none"><li>identify people, animals, events and objects</li><li>indicate time, days and dates</li><li>show possession</li></ul>	He is <u>a teacher</u> . I like <u>dogs</u> . This is <u>a beautiful bag</u> . Today is my <u>birthday</u> . It is <u>half past ten</u> now. Today is <u>Monday</u> . It is <u>2<sup>nd</sup> July</u> today. It is <u>Peter's toy car</u> .	Use nouns or noun phrases to <ul style="list-style-type: none"><li>indicate conditions</li><li>refer to quantities or units</li></ul>	I have <u>a headache</u> . I need <u>a piece of paper</u> . I bought <u>a pair of trousers</u> yesterday.
Use the singular form of countable nouns to <ul style="list-style-type: none"><li>refer to one person, animal, event and object</li></ul>	I have <u>a bicycle</u> .	Use “-ing” nouns or noun phrases to <ul style="list-style-type: none"><li>refer to activities</li></ul>	I enjoy <u>singing</u> . My brother likes <u>collecting stamps</u> .
Use the plural form of countable nouns to <ul style="list-style-type: none"><li>refer to more than one person, animal, event and object</li></ul>	Jo has two <u>brothers</u> . She has four <u>balloons</u> .	Use plural nouns to <ul style="list-style-type: none"><li>refer to some tools and other things that people use</li></ul>	You can use <u>scissors</u> to cut the thread. Put on your <u>headphones</u> .
Use plural nouns to <ul style="list-style-type: none"><li>refer to some clothes and other things that people wear</li></ul>	Where are my <u>shorts</u> ? Miss Lee wears <u>glasses</u> .	Use collective nouns to <ul style="list-style-type: none"><li>refer to a group of people</li></ul>	Our <u>class</u> is very smart. The shopkeeper called <u>the police</u> .
Use uncountable nouns to <ul style="list-style-type: none"><li>refer to uncountable objects</li><li>refer to general things which are not used with numbers</li></ul>	I have <u>milk</u> for breakfast. This is good <u>work</u> .	Use the possessive form of nouns to <ul style="list-style-type: none"><li>refer to a point in time</li></ul>	I have to hand in the project in a <u>week's</u> time.

# The Seven Learning Goals

1. Know how to **distinguish right from wrong**, fulfil their **duties** as members in the family, society and the nation, and show **acceptance and tolerance** towards **pluralistic values**;
2. Understand their national identity and be **concerned** about society, the nation and the world, and to fulfil their role as a **responsible** citizen;
3. Develop **an interest** in reading extensively and cultivate **a habit** of reading;
4. **Actively** communicate with others in English and Chinese (including Putonghua);
5. Develop **independent** learning skills, especially **self-management** skills and **collaboration** skills;
6. Master the basics of the **eight Key Learning Areas** to prepare for studying in secondary schools; and
7. Lead a **healthy** lifestyle and develop an interest in aesthetic and physical activities and an ability to **appreciate** these activities.

# Existing problems in teaching

- Too much spoon-feeding
- Teacher-led v.s. student-centred /student-led
- Lack of motivation in learning
- Lack of joy of learning
- Severe competition among students
- Students became passive learners

Lifelong learning = the  
"ongoing, voluntary,  
and self-motivated"  
pursuit of knowledge



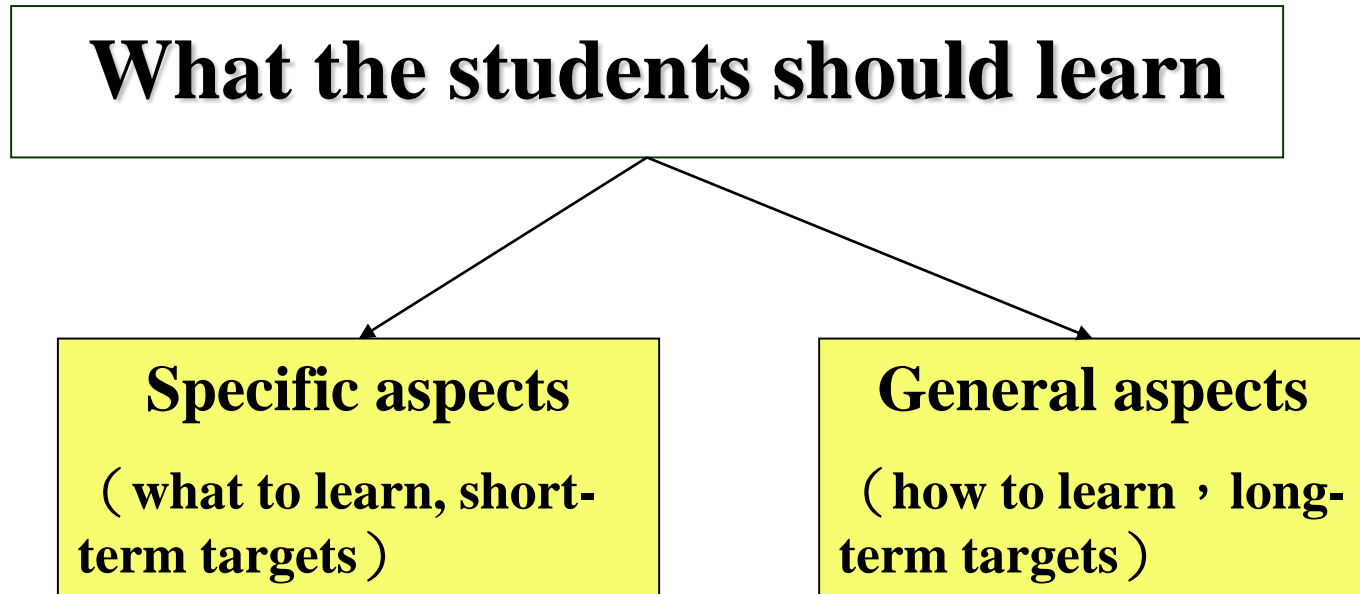
# The Seven Learning Goals

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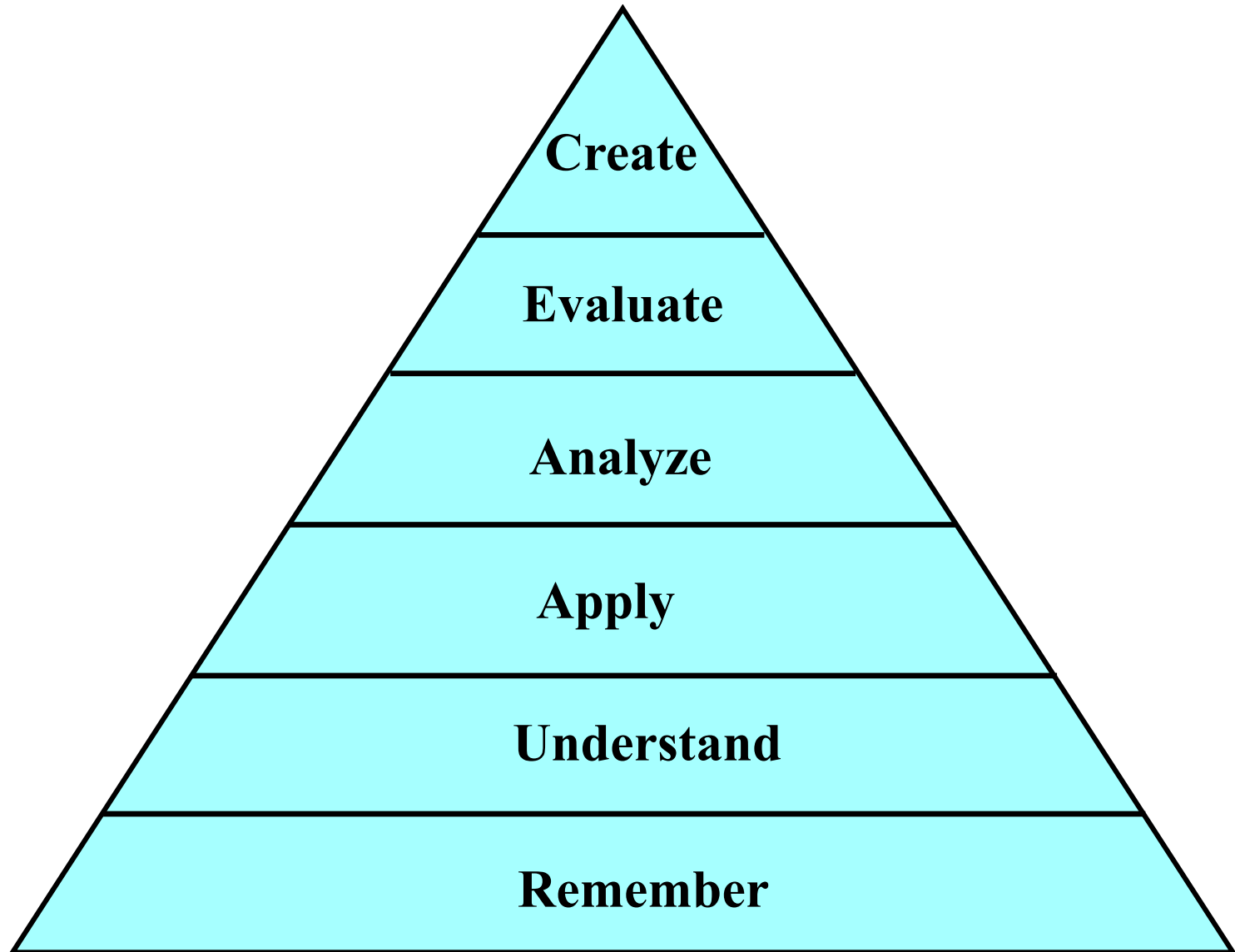
# Promoting student agency via VT-plus

1. VT and subject-specific and topic-specific **learning methods**
2. VT and process of **cognitive development** (awareness, discernment, storing, retaining, recalling, transferring..) and **levels of learning**
3. VT and development of **generic skills** (structure, process, measurement), **values and attitudes.**
4. VT and **other learning strategies** (cooperative learning, rote learning, etc.)
5. VT and **student agency**

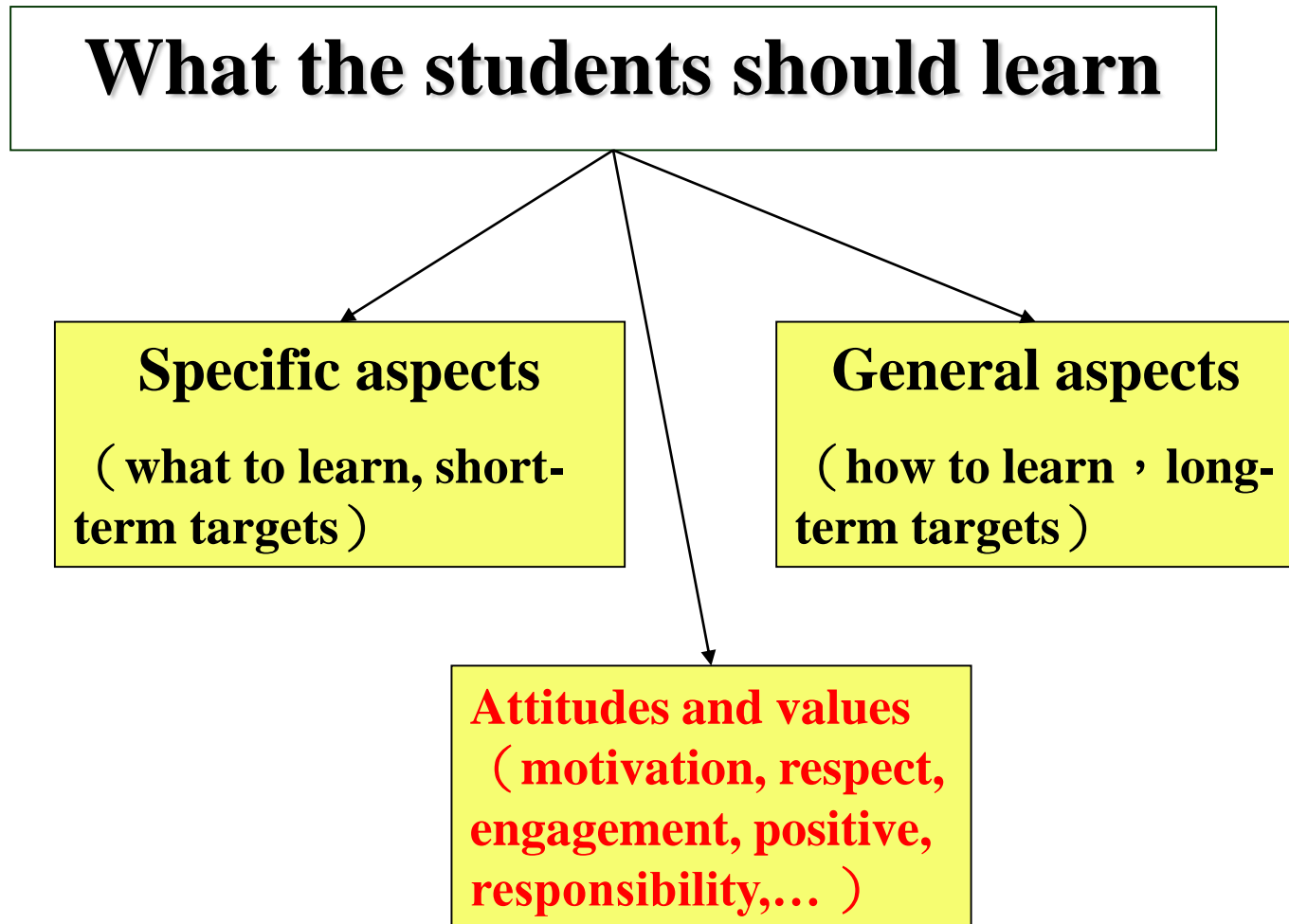
# Two aspects of the object of learning:



# Levels of learning



# **Three** aspects of the object of learning:





# Critical aspects (ASK)

<b>Domain</b>	<b>Description</b>
Attitudes	Respect teachers' teaching
Skills	Observing and memorizing
Knowledge	There is water vapor in the air

# Pattern of variation enacted in Class 3

What varies	What is invariant	What is to be discerned
Tissue paper in contact with air gets wet	Cold can and tissue paper	Only the tissue paper in contact with air gets wet, so the water must have come from air.  Water cannot come from inside the can.
Tissue paper not in contact with air remains dry		
Tissue paper in contact with can remains dry		
Tissue paper not in contact with can gets wet		



# Example in variation in Class 2



# Critical aspects (ASK)

<b>Domain</b>	<b>Description</b>
Attitudes	Respect teachers' teaching
Skills	Observing, <b>comparing and discerning</b>
Knowledge	There is water vapor in the air

# Pattern of variation enacted in Class 3

What varies	What is invariant	What is to be discerned
<p>Tissue paper in contact with air gets wet</p> <p>Tissue paper not in contact with air remains dry</p> <p>Tissue paper in contact with can remains dry</p> <p>Tissue paper not in contact with can gets wet</p>	<p>Cold can and tissue paper</p>	<p>Only the tissue paper in contact with air gets wet, so the water must have come from air.</p>         <p>Water cannot come from inside the can.</p>



# Critical aspects (ASK)

Domain	Description
Attitudes	Respect teachers' teaching; self-reflection, self-correcting
Skills	Observing, comparing, discerning and critical thinking
Knowledge	There is water vapor in the air; the can is not leaking

# P5 music lesson



**CF: The right skills to play the base guitar well: pose, use fingers/sting, beat/rhythm, holding the string and their impacts (the right /better way vs the wrong /poorer way)**

# Critical aspects (ASK)

<b>Domain</b>	<b>Description</b>
Attitudes	Aesthetic appreciation of music; self-reflection, self-correcting
Skills	Observing, analyzing, comparing, applying
Knowledge	The key skills of playing a base guitar



# The key skills of playing a base guitar

Skills	Descriptions / impact
How to hold it	To maximize your hand coordination and comfort in playing
How to use your fingers	Find the best body part for playing
Why playing one string at a time	To achieve quality sounds
Why keeping the beat	To be a right part of the whole music
...	...

- 1. Which skill you have mastered? Which needs more practice?**
- 2. Can we apply these skills in playing other instruments?**

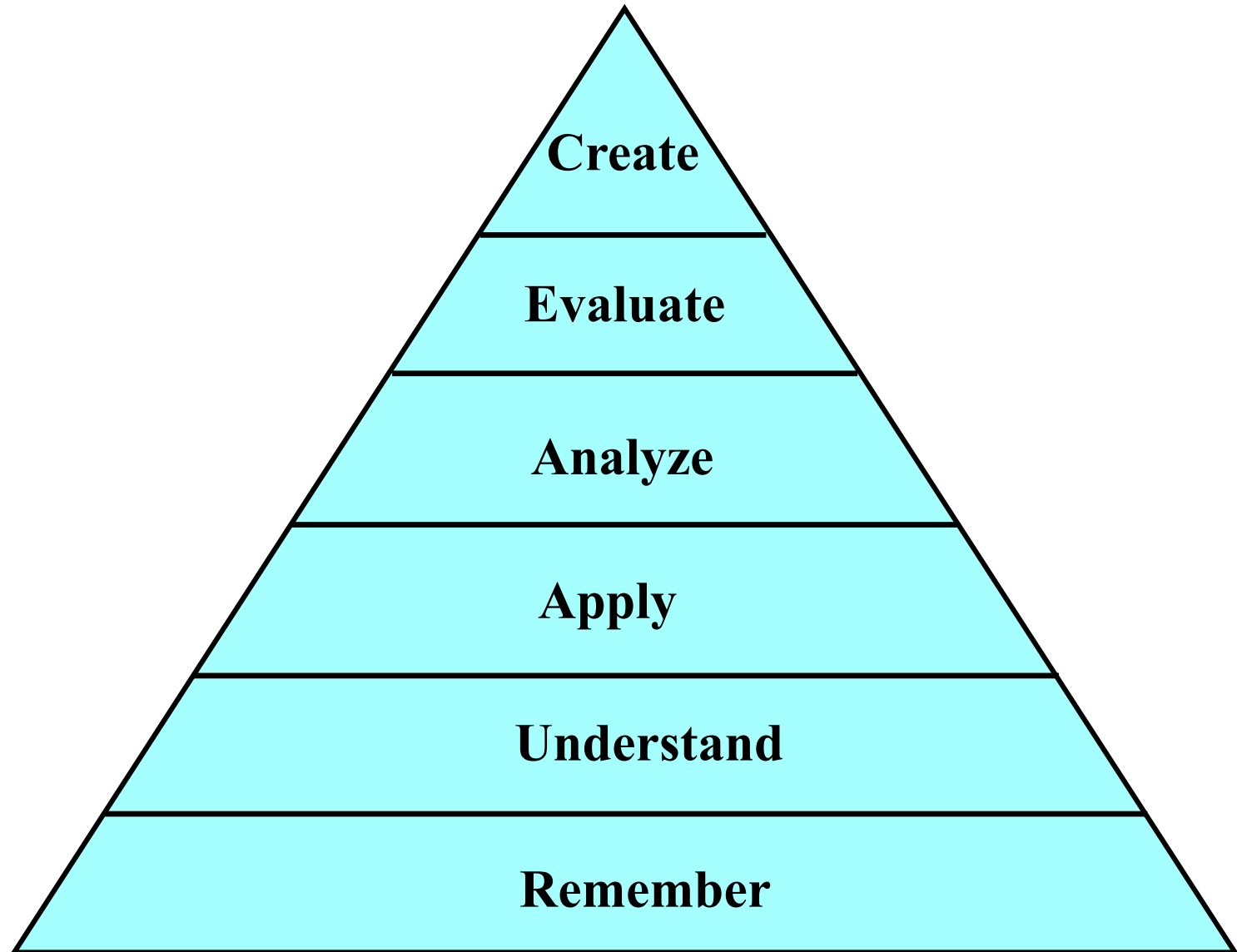
**CF1: The right skills to play the base guitar well: pose, use fingers/string, beat/rhythm, holding the string and their impacts (the right /better way vs the wrong /poorer way)**

**CFs: The critical aspects for playing a musical instruments / string instrument**

# Critical aspects (ASK)

<b>Domain</b>	<b>Description</b>
Attitudes	Aesthetic appreciation of music; self-reflection, self-correcting
Skills	Observing, analyzing, comparing, applying, <b>evaluating, transferring</b>
Knowledge	Different ways of playing a base guitar

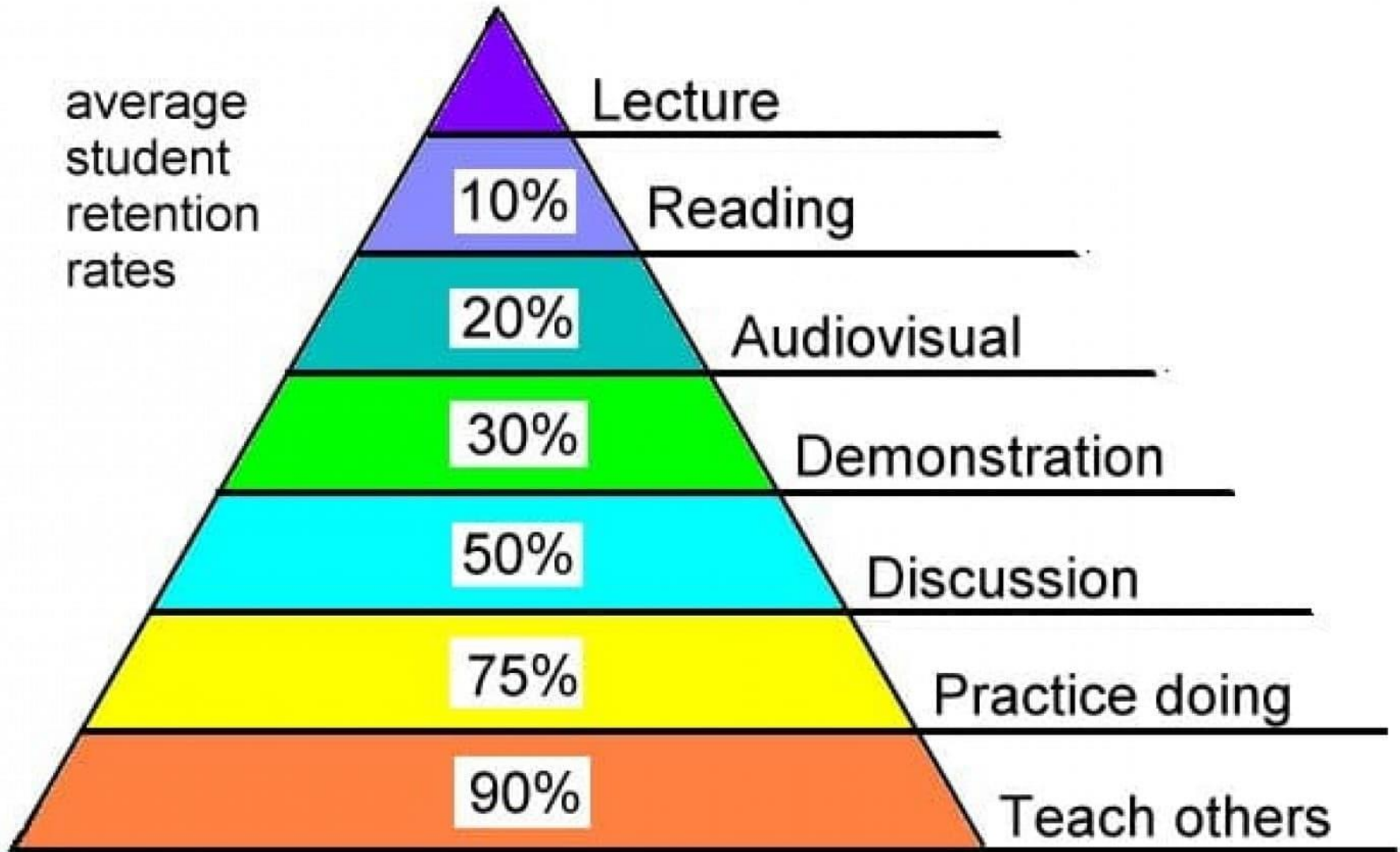
# Levels of learning



# Promoting student agency via VT-plus

1. VT and subject-specific and topic-specific **learning methods**
2. VT and process of **cognitive development** (awareness, discernment, storing, retaining, recalling, transferring..) and levels of learning
3. VT and development of **generic skills** (structure, process, measurement), **values** and **attitudes**.
4. VT and **other learning strategies** (**cooperative learning**, rote learning, etc.)
5. VT and **student agency**

# Learning Pyramid



Source: National Training Laboratories, Bethel, Maine

Dale (1946)

# Cooperative Learning (CL)

- Johnson, Johnson, and Holubec (1993) define CL as “the instructional use of small groups so that students **work together** to **maximize their own** and **each other’s learning**” (p.9).

Relevance structure 3: Related to  
other learners’  
learning/perspectives/ contexts



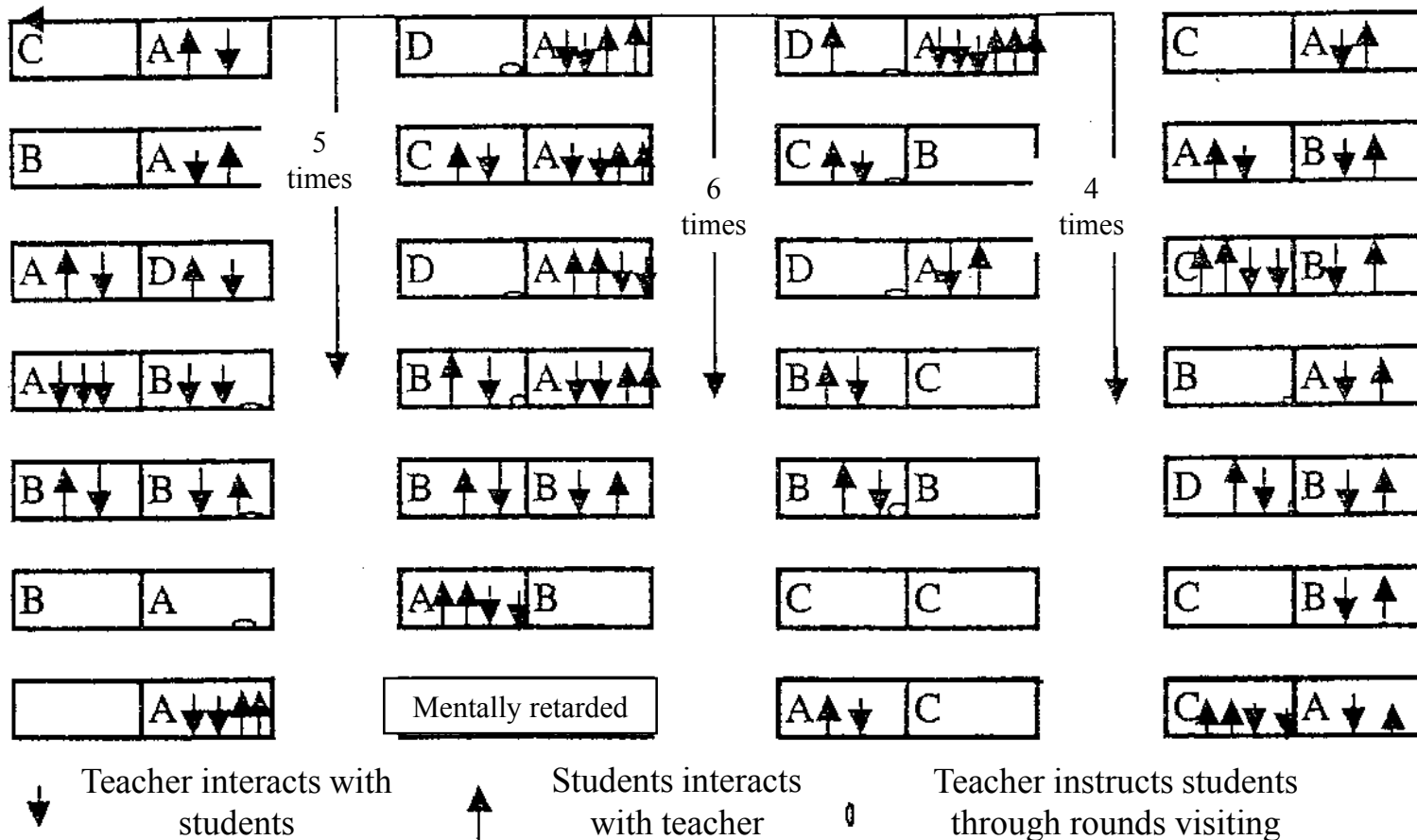
# Classroom Interaction (1)

Language flow and Teacher made rounds visiting students

**One to one**

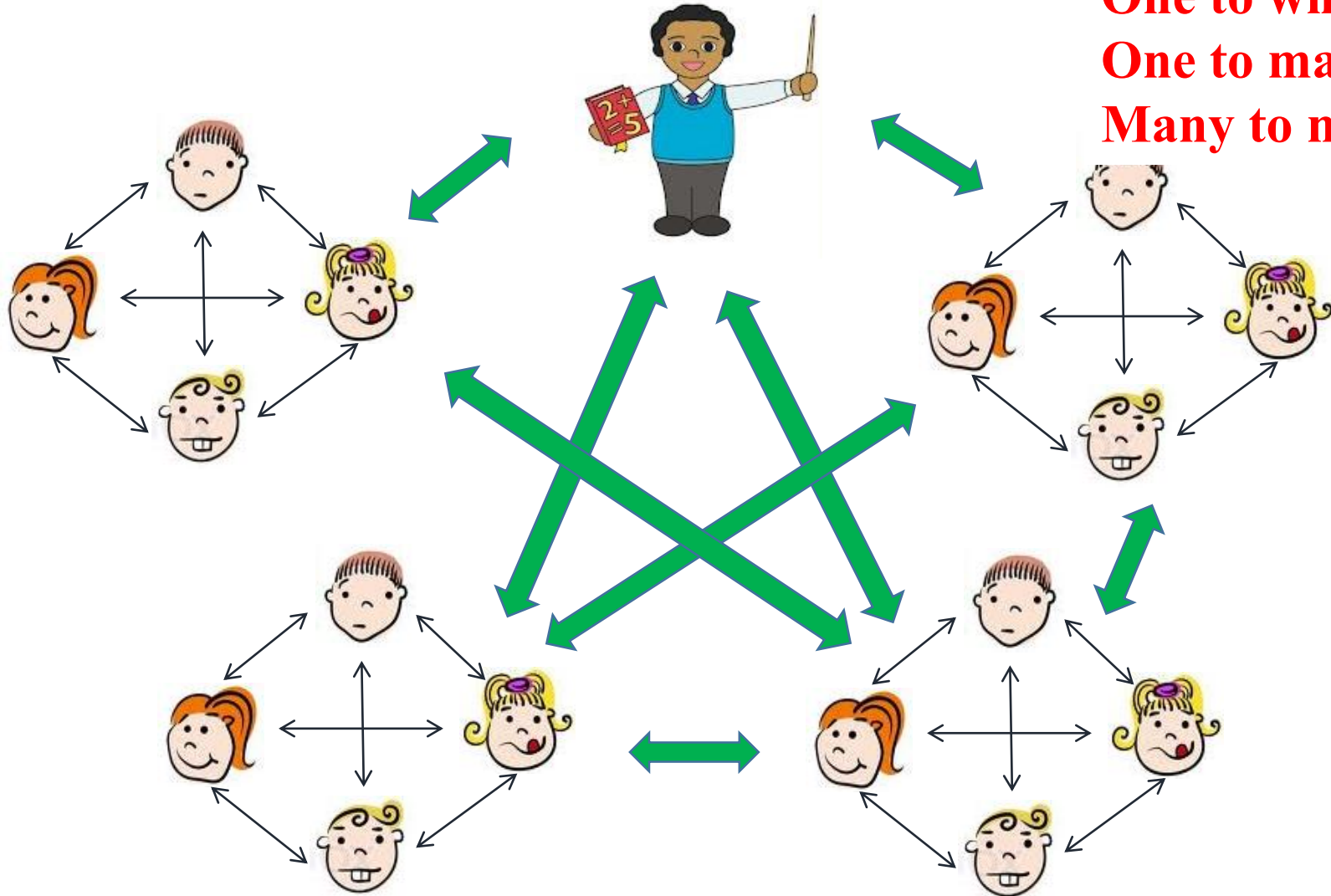
**One to whole class**

Podium



# Classroom Interaction (2)

**One to one**  
**One to whole class**  
**One to many**  
**Many to many**





# Benefits of collaborative learning

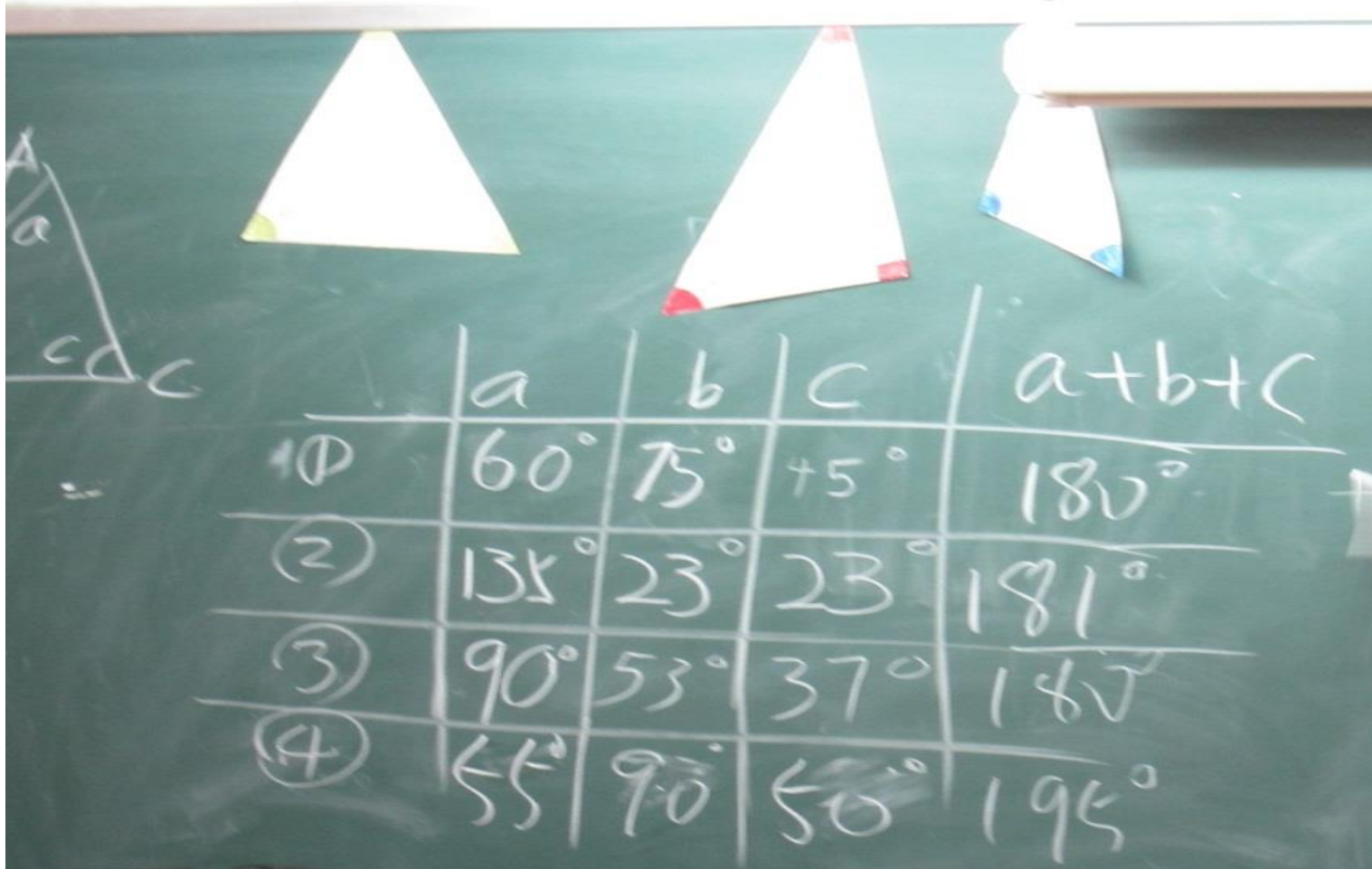
$$1 \rightarrow (1+1) > 1$$

- Provide peer support and learning
- Enhance participation and autonomy
- Widen horizon and create new knowledge
- Develop skills and strategies
- Increase efficiency and effectiveness



# The sum of internal angles are $180^\circ$

1. 学生独自在工作纸画一个三角形，并使用量角器来测量，求出三角形内角和。
2. 学生配对轮流分享自己的解题方法，其伙伴提出疑问或建议，并作修订。
3. 老师随机抽出学生将其答案写在黑板上。
4. 全班同学和教师一起评鉴各学生的答案，并讨论三角形内角和是否为 $180^\circ$ 。



# Benefits of collaborative learning

$$1 \rightarrow (1+1) > 1$$

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# Critical aspects (ASK)

<b>Domain</b>	<b>Description</b>
Attitudes	
Skills	
Knowledge	The definition of monomial The addition and subtraction of monomial

# Huadi Sec School in Guangzhou: Teacher talk for only 10 minutes at most (S1 Maths)



1. Self-study /independent thinking
2. Group leader analyzes the learning difficulties
3. Students co-teach the solutions in groups
4. Students present to the whole class
5. Comments from peers and teacher
6. Students self-correct mistakes

(Gu, 2015)





# Students mark their assignments

- B.  $2x^2 + x + 1$   
D.  $x + y = 0$

式子表示为 (C).

- B.  $x + \frac{1}{3}y = 4$   
D. 以上都不对

中, 甲班学生共捐款 266 元, 乙班学生共捐款 230 元, 设乙班学生捐款数为  $x$  元, 则甲班学生共捐款  $2x + 30$  元, 根据题意列方程为  $2x + 30 = 266 - x$ .

"14" 表示成关于  $x$  的方程为  $x = 14$ .

出方程:

大 3;

$= \frac{1}{2}$

一半等于 2;

$= 2$

的 34%;

$34\%$

的 2 倍少 31;

$2x - 31$

的 6 倍加上 1.

$= 6x + 1$

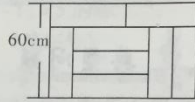
m, 高是 5 cm, 面积 40 cm<sup>2</sup>.

).

$x \cdot 5 = 2 = 10$

14. 如图, 用 8 块相同的长方形地砖拼成一个长方形地面, 设每块长方形地砖的长为  $x$  cm, 根据题意列方程为  $x + (60 - x) = 60$ .

$3(60 - x) = x$



15. 根据下列条件列出方程:

(1)  $x$  的 5 倍比  $x$  的相反数大 10;

$5x - (-x) = 10$

(2)  $x$  的  $\frac{3}{4}$  比它的倒数小 4.

$x - \frac{3x}{4} = 4$       $\frac{4}{3x} = \frac{1}{x} - 4$

16. 根据题意, 设未知数, 列出方程

(1) 一个长方形的周长是 20 厘米, 面积是 24 平方厘米, 求这个长方形的宽;

$x(\frac{1}{2} \times 20 - x) = 24$

(2) 一根铁丝用去  $\frac{4}{5}$  后还剩下 3 米, 求这根铁丝的长;

$(1 - \frac{4}{5})x = 3$

(3) 某校女生占全体学生数的 52%, 比男生多 80 人, 这个学校有多少名学生? 解: 设有  $x$  名学生

~~$52x - (1 - 52\%)x = 80$~~       $52\%x = (1 - 52\%)x + 80$

(4) 甲种铅笔每支 0.3 元, 乙种铅笔每支 0.6 元, 用 9 元钱买了两种铅笔共 20 支, 两种铅笔各买了多少支? 解: 设

$0.3x + 0.6(20 - x) = 9$

方程的解: 能够使方程等号左右两边相等的未知数的值, 称为方程的解.

## 典型问题

1. 下列方程的解是  $x = 2$  的是 (B).
- A.  $x - \frac{1}{2} = 0$      B.  $6x - 12 = 0$   
C.  $-4x + 6 = 0$      D.  $2x + 4 = 0$

2. 下列说法中, 正确的是 (D).
- A.  $x = 5$  是方程  $x + 5 = 0$  的解  
B.  $y = 5$  是方程  $3y + 15 = 0$  的解  
C.  $z = -1$  是  $-\frac{z}{4} = 4$  的解  
D.  $x = 0.04$  是方程  $25x = 1$  的解

3. 检验下列各题括号里的数是不是它前面的方程的解.

(1)  $3x = x + 4$  ( $x = 2, x = \frac{3}{2}$ );

证明 (1) 把  $x = 2$  代入  $3x = x + 4$  得  $2 \times 3 = 2 + 4$

$x = 2$  为此方程的解

(2) 把  $x = \frac{3}{2}$  代入  $3x = x + 4$  得  $3 \times \frac{3}{2} = \frac{3}{2} + 4$

$\frac{9}{2} \neq \frac{11}{2}$       $x = \frac{3}{2}$  不为此方程的解

(2)  $(x - 2)(x - 3) = 0$  ( $x = 0, x = 2, x = 3$ ).

证明 (1) 把  $x = 0$  代入  $(x - 2)(x - 3) = 0$  得  $(0 - 2) \times (0 - 3) = 0$

$-2 \times (-3) \neq 0$

$x = 0$  不为此方程的解

(2) 把  $x = 2$  代入原式得  $(2 - 2) \times (2 - 3) = 0$

$0 \times (-1) = 0$

$x = 2$  为此方程的解

(3) 把  $x = 3$  代入原式得  $(3 - 2) \times (3 - 3) = 0$

$1 \times 0 = 0$

$x = 3$  为此方程的解

## 变式练习

4.  $x = -2$  是下列方程 (B) 的解.  $(-2 - 3) \times (-2 + 2) = 0$
- A.  $2x = 6 \times 2 \times (-2) = 4$      B.  $(x - 3)(x + 2) = 0$   
C.  $x^2 = 3$      D.  $3x - 6 = 0$

5. 下列说法中, 不正确的是 (D).

- A.  $x = 0$  是方程  $\frac{1}{2}(x + 3) = 1.5$  的解  
B.  $x = 2$  是方程  $x - 10 = -4x$  的解  
C.  $x = -1$  是方程  $|x| = 1$  的解  
D.  $x = 2$  是方程  $x^2 - 2 = 0$  的解

6. 检验下列各题括号里的数是不是它前面的方程的解.

(1)  $y = 10 - 4y$  ( $y = 1, y = 2$ );

证明 (1) 把  $y = 1$  代入原式得  $1 \neq 10 - 4 \times 1$

$\therefore y = 1$  不为此方程的解

(2) 把  $y = 2$  代入原式得  $2 = 10 - 4 \times 2$

$\therefore y = 2$  为此方程的解

(2)  $x(x + 1) = 12$  ( $x = 3, x = 4, x = -4$ ).

证明 (1) 把  $x = 3$  代入原式得  $3 \times (3 + 1) = 12$

$\therefore x = 3$  为此方程的解

(2) 把  $x = 4$  代入原式得  $4 \times (4 + 1) \neq 12$

$\therefore x = 4$  不为此方程的解

(3) 把  $x = -4$  代入原式得  $-4 \times (-4 + 1) = 12$

$\therefore x = -4$  为此方程的解

# Critical aspects (ASK)

<b>Domain</b>	<b>Description</b>
Attitudes	Sharing, support, responsibility, self-reflection, self-correcting
Skills	Reflecting, analyzing, summarizing, problem-solving, valuating
Knowledge	The definition of monomial The addition and subtraction of monomial



# Reflection on collaboration

	題目	準時	策略	参与	總分 (50)
卓					
橋					
朱					
君					
唐					



# Benefits of collaborative learning

$$1 \rightarrow (1+1) > 1$$

- Provide peer support and learning
- Enhance participation and autonomy
- Widen horizon and create new knowledge
- Develop skills and strategies
- Increase efficiency and effectiveness



**The Borås Team are willing to share open lessons on cooperative learning!**



# P6 English lesson on the plural forms of nouns

<b>1. Singular and plural forms in Swedish and English</b>			
En ball – ballar En klocka - klockor		-s girl – girls star – stars	
<b>2. Rules of forming the English plural forms</b>			
-es potato – potatoes tomato – tomatoes hero-heroes	-s photo – photos; studio – studios; piano - pianos		-es /is/ horse – horses dish - dishes glass – glasses
Vowel +ys toy – toys boy – boys monkey - monkeys	Consonant +ies candy – candies puppy - puppies		foot – feet mouse –mice tooth – teeth
<b>3. Applications &amp; categorization</b> pencil – pencils baby – babies (categorize it into –ies) echo – echoes			

# Critical aspects (ASK)

<b>Domain</b>	<b>Description</b>
Attitudes	Contrastive awareness of languages
Skills	Analyzing, generalising
Knowledge	<ul style="list-style-type: none"><li>• Differences between singular and plural nouns in English</li><li>• Different ways of forming English plural nouns</li></ul>

# Promoting student agency in learning

## 1. Finding the features of singular nouns and plural nouns in English

girl girls photo photos horse horses dish dishes glass glasses  
 studio studios piano pianos star stars potato potatoes tomato tomatoes  
 hero heroes toy toys boy boys monkey monkeys candy candies  
 puppy puppies foot feet mouse mice tooth teeth

**Which is which? Why?**

## 2. How to categorise them based on rules of forming the plural forms

-s girl – girls star – stars	-es potato – potatoes tomato – tomatoes hero-heroes	-s photo – photos; studio – studios; piano - pianos	-es /is/ horse – horses dish - dishes glass – glasses
Vowel +ys toy – toys boy – boys monkey - monkeys	Consonant +ies candy – candies puppy - puppies		foot – feet mouse –mice tooth – teeth

## 3. Applications & categorization (one example from each student →booklet)

## 4. Compare the differences between forming plural nouns in Swedish and English

# Critical aspects (ASK)

Domain	Description
Attitudes	Contrastive awareness of languages; the habit of comparing language; support, responsibility
Skills	Analyzing, generalizing, categorizing, synthesizing
Knowledge	<ul style="list-style-type: none"><li>• Differences between singular and plural nouns in English</li><li>• Different ways of forming English plural nouns</li></ul>

# Teaching for no teaching

- Identify **ASK** CFs to achieve goals
- Aim @ **high levels of learning**
- **Allow students to lead learning** by finding problems, solutions, strategies, supporting each other and assessment and
- Cultivate **collaborative learning** among students
- Cultivate an open, safe and conducive **culture** for learning and collaboration
- **Encourage and support** students to take risk, make mistakes and self-correct, solve problems...







## The Cycle of Self-Regulated Learning

**Students outdo teachers.**

# What is Variation Theory?

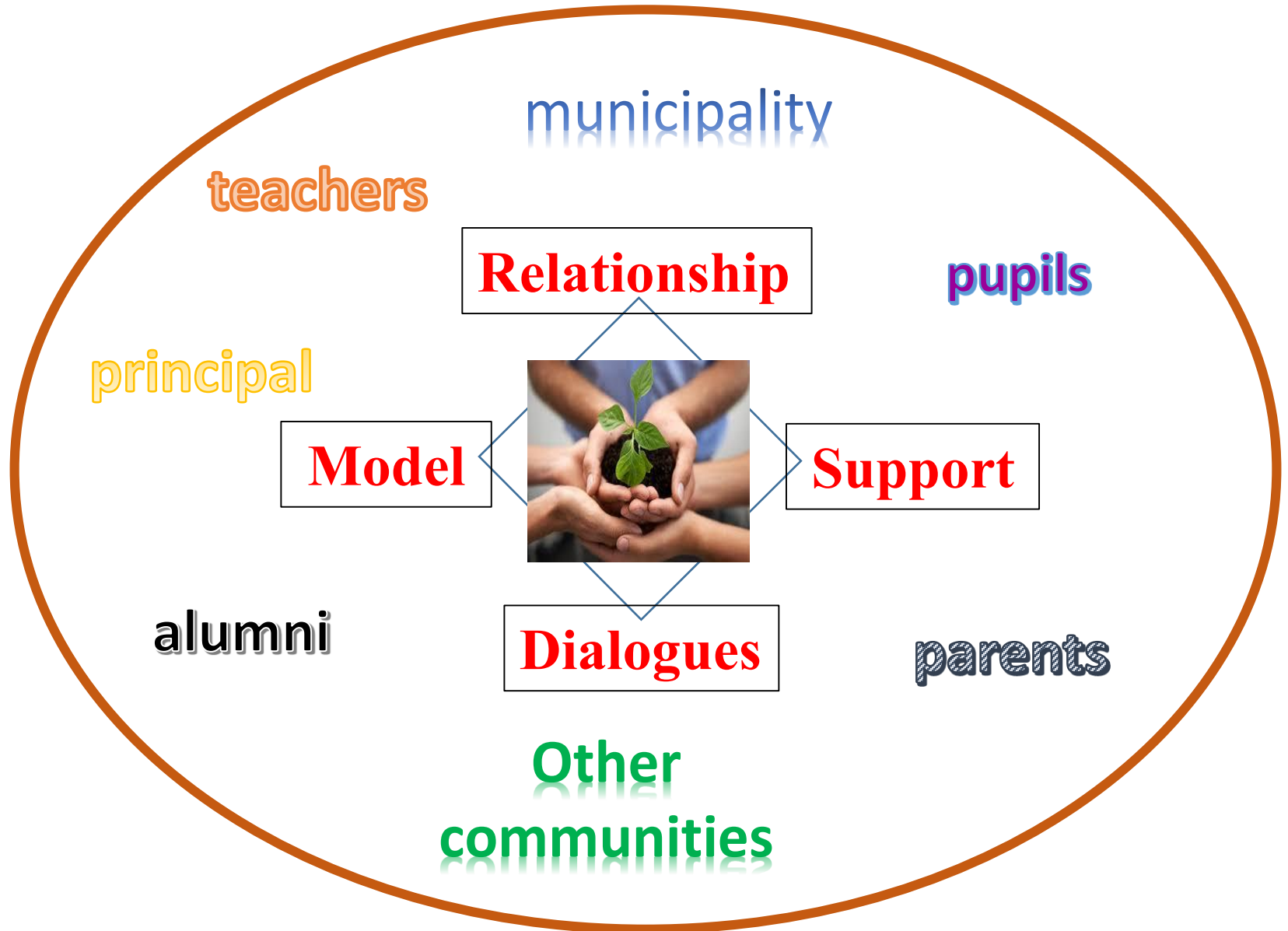
Domain	Description
Attitudes	We teachers do not know all! ( <b>humble learners</b> ) Responsibility for enhancing learning and development
Skills	Teaching is not to transmit knowledge to learners who do know ( <b>don't underestimate students</b> ); but to develop students based on their existing knowledge, skills and attitudes, co-find better solutions for problems
Knowledge	What learners have known? What learners should learn? How do they learn? How to best support learning of the topics? How to best develop learners' skills and attitudes? ( <b>learner- &amp; learning- centred</b> )

# Variation Theory People

- **Accepting** students' current state with a hopeful heart
- **Understanding** students' problems and causes
- Teaching begins from students' problems (**Embrace problems**)
- Identifying critical features for learning (**Clarity of problems**)
- Providing scaffolding/structure for learning for awareness / learning / development /problem-solving (**Help, support and empowering students with hopes, solutions and choices**)
- Reflecting on students' learning outcome and further needs (**Reflective and enquiring**)
- Finding the key to student success(**Effective and create changes**)



# Communities of learning



# Your daughter is a dancer!



**Gillian Lynne**



# Goal of education is to bring out the best you.



- Know self;
- Trust self;
- Rely on self;
- Love self.

(Cheng & Zhang,2017)