

Student LED

W **H** **A** **T**
is

Student LED



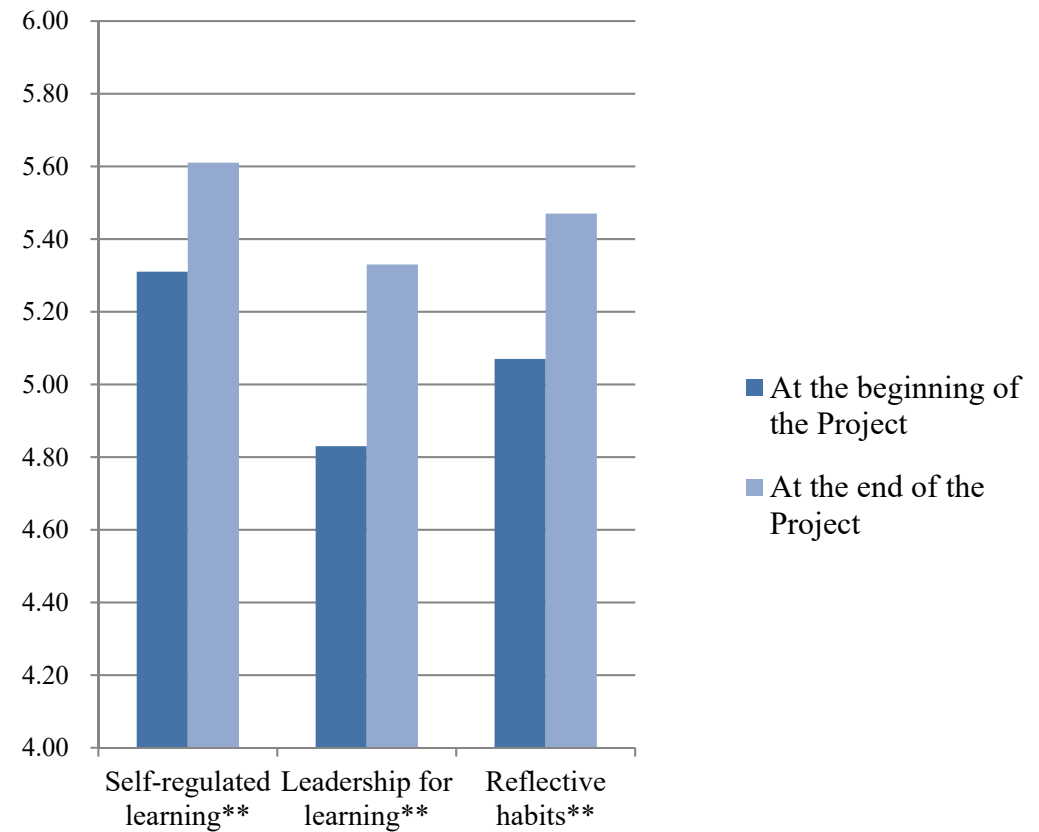
Learning
Experience
Designer



Findings (Overall)

Students reported significantly higher scores in all of the three development areas.

Median
(Scale: 1-7, 1
being the lowest;
7 being the
highest)



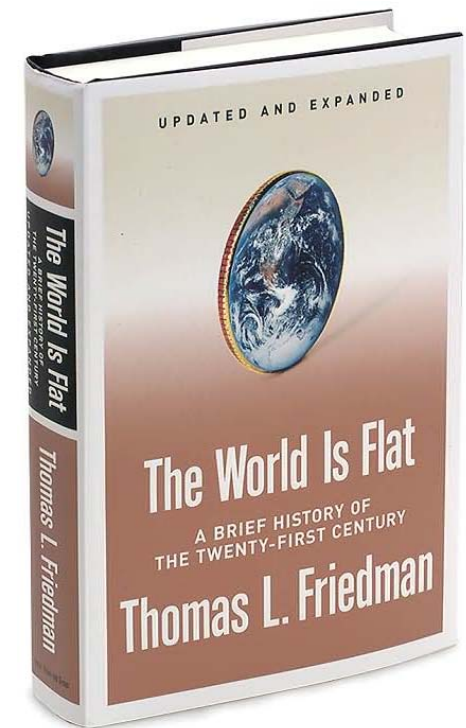


The Paradigm Shift

What employers look for are people who, day in and day out, can work effectively with other people to come up with innovative solutions to problems that cannot be anticipated.

The Paradigm Shift

“The first, and most important, ability you can develop in a flat world is the ability to **“learn how to learn”** – to constantly absorb, and teach yourself, new ways of doing old things and old ways of doing new things.”



The Paradigm Shift

*“Your career, if it is to be a successful one, will be a series of collaborations as a member of many different teams. And the secret to being a **valued contributor** to those teams will be your development as a **lifelong learner**.”*

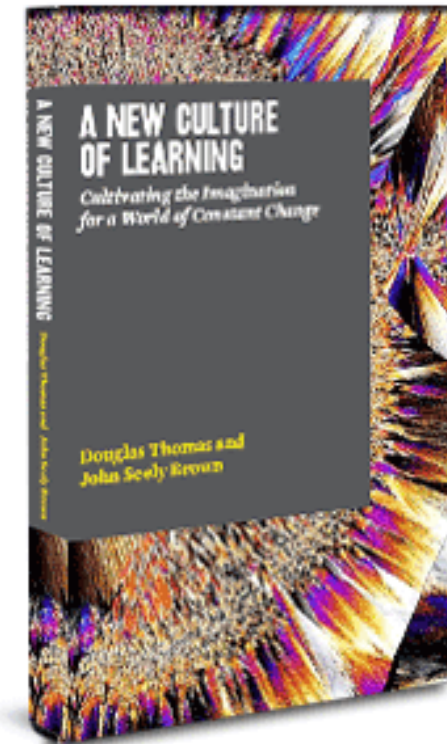
--- Ellen Kullman
CEO, DuPont
23 May 2011
Commencement speech
at Lehigh University



COURTESY: DUPONT

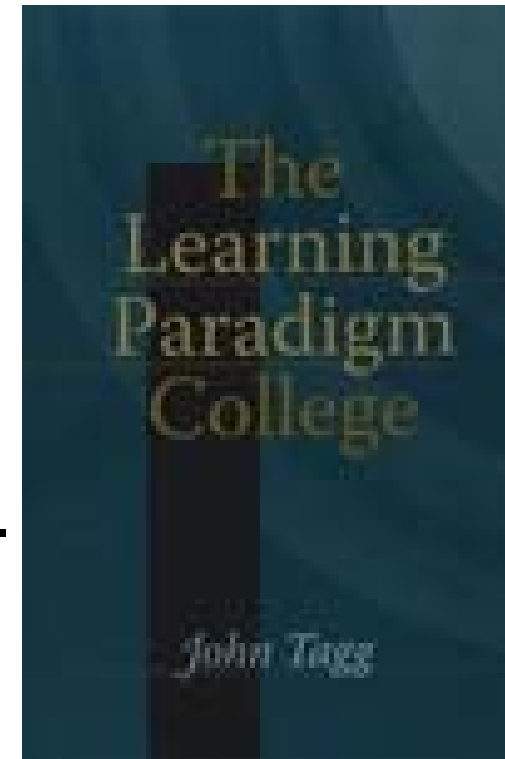
A New Century of Learning

- Learning in the collective
- Learning as inquiry
- Playing to learn



Learning Paradigm College

- The central theme of the paradigm shift:
 - The mission of an institution is to produce **LEARNING**,
 - NOT to provide instruction.

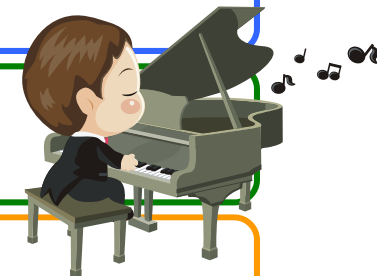


A learning paradigm college...



Promotes intrinsically rewarding goals

Requires frequent, continual, connected, and authentic student performances



Provides consistent, continual, interactive feedback to students

Provides a long time horizon for learning



Creates purposeful communities for practice

Aligns all of its activities around the mission of producing student learning



**Advances in
learning
sciences**

(e.g., research
on how people
learn)

**Focus on whole
person education
and lifelong
learning skills**

(two fundamental
principles of the
education reform)

**From
teaching-centered
to
learning-centered**

**Professional
development of
teachers**

**Emphasis on
active and
collaborative
learning**
(competition
vs. cooperation)



Student-LED

不是搞活動
乃是搞學習



Student-led vs Student-LED

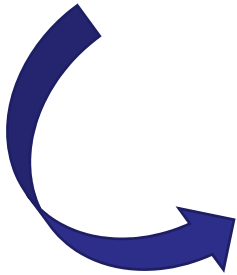
Student led project	Student LED project
Student as leader of the activity	Student as learning experience designer (teacher)
Design and plan for the activity	Design and plan for learning
Self-regulated learning	Self-regulated learning and/or “learning to teach; teaching to learn”
A good show	Learning happens
End-of-activity survey Self-reflection	Post-activity follow up; assessed with a body of quantitative and qualitative evidence; self-reflection

In a Classroom



Teacher

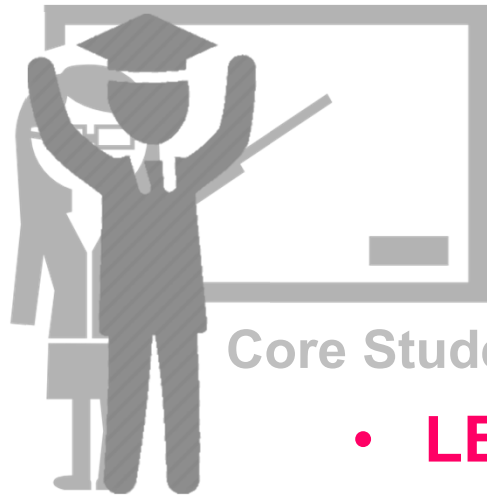
- LE Designer



Students

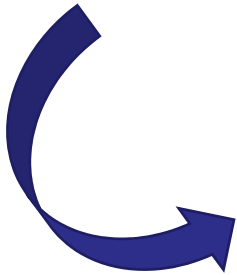
- Learning Experience

In a Classroom



Core Student(s)

- Deep Reflection
- Learning Experience
- LE Designer



Students

- Learning Experience

Student Interest Club



Student Committee

- **Activity Designer**



Students

- **Experience**

Student Interest Club



Student Committee

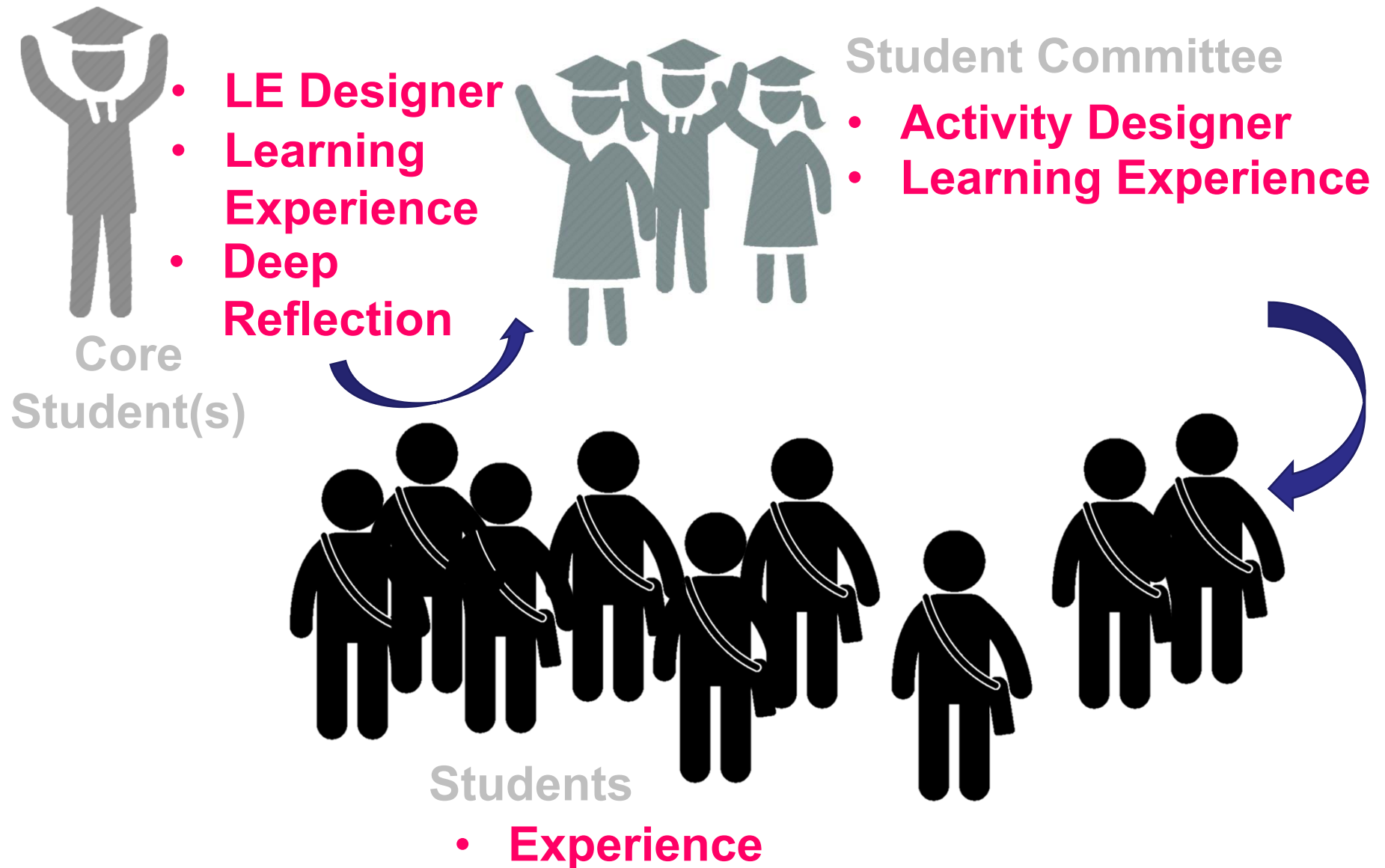
- LE Designer
- Learning Experience
- Deep Reflection

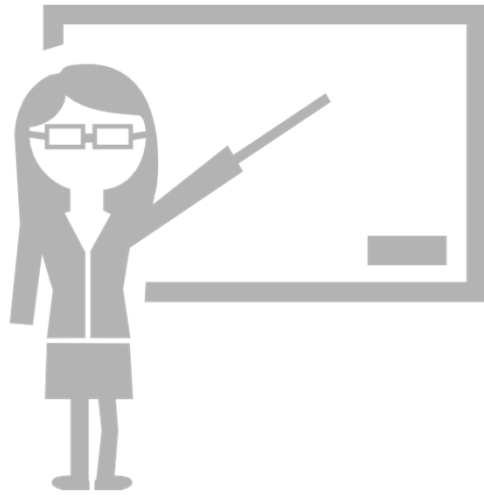


Students

- Experience

Student Interest Club





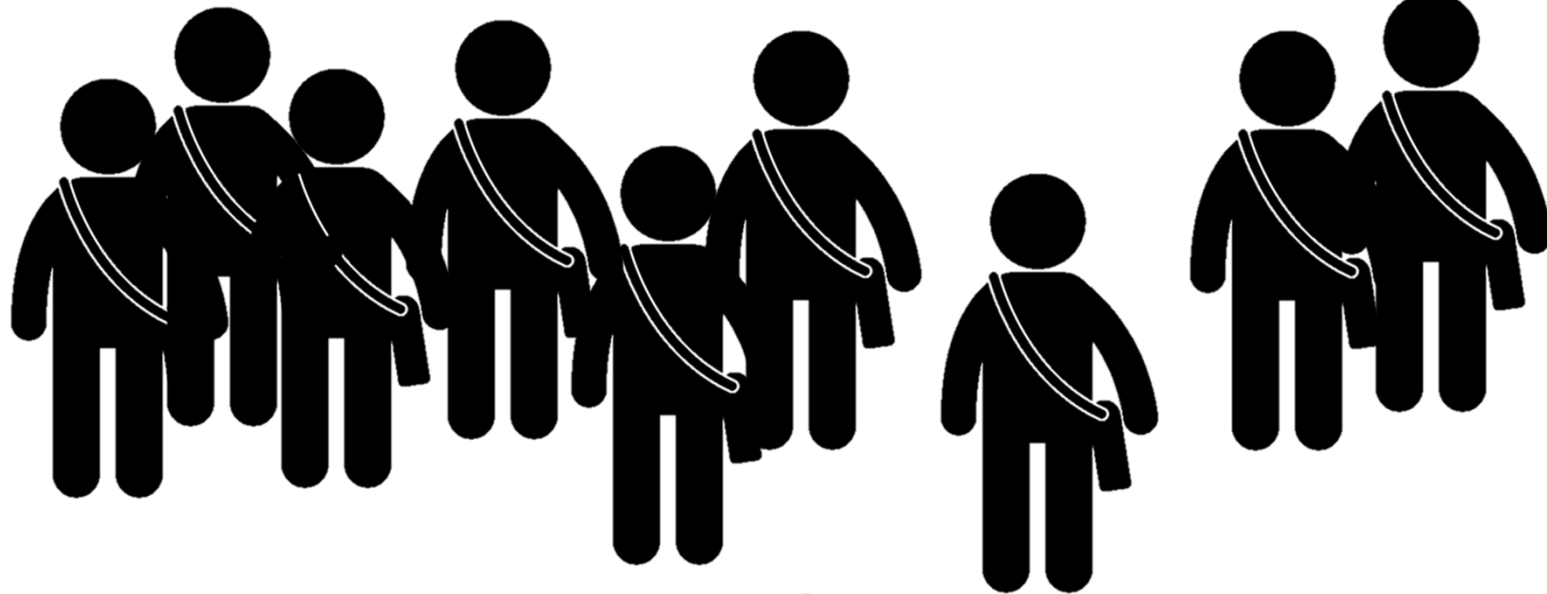
Teacher



Core
Student(s)



Student
Committee



Target Group

Learning as a competency

Attitudes

- + Self-confidence
- + Motivation
- + Self-efficacy

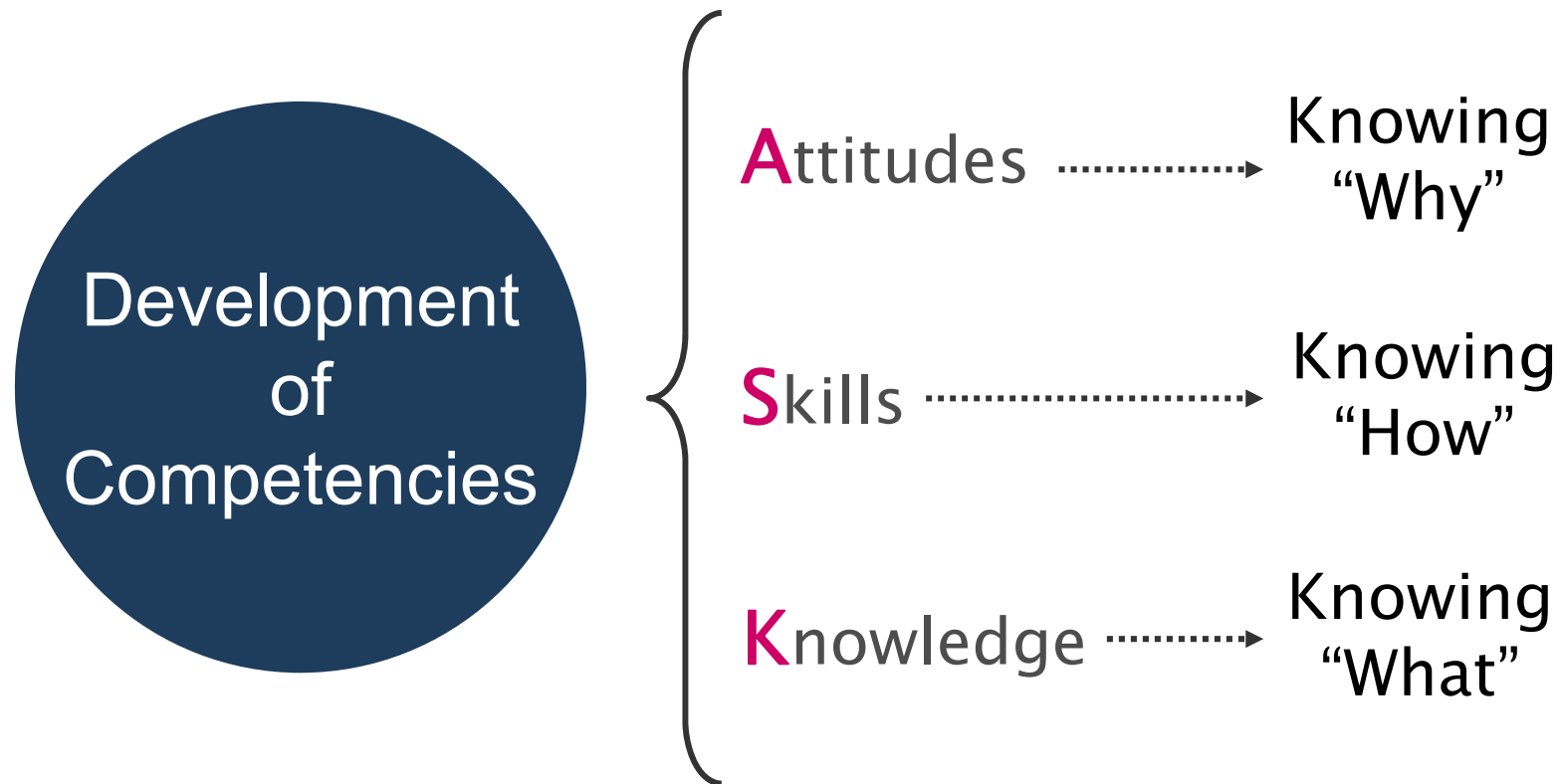
Skills

- + Time management
- + Goal setting and realization
- + Reflection/ critical thinking

Knowledge

- + Knowledge of learning
- + Knowledge of oneself as a learner

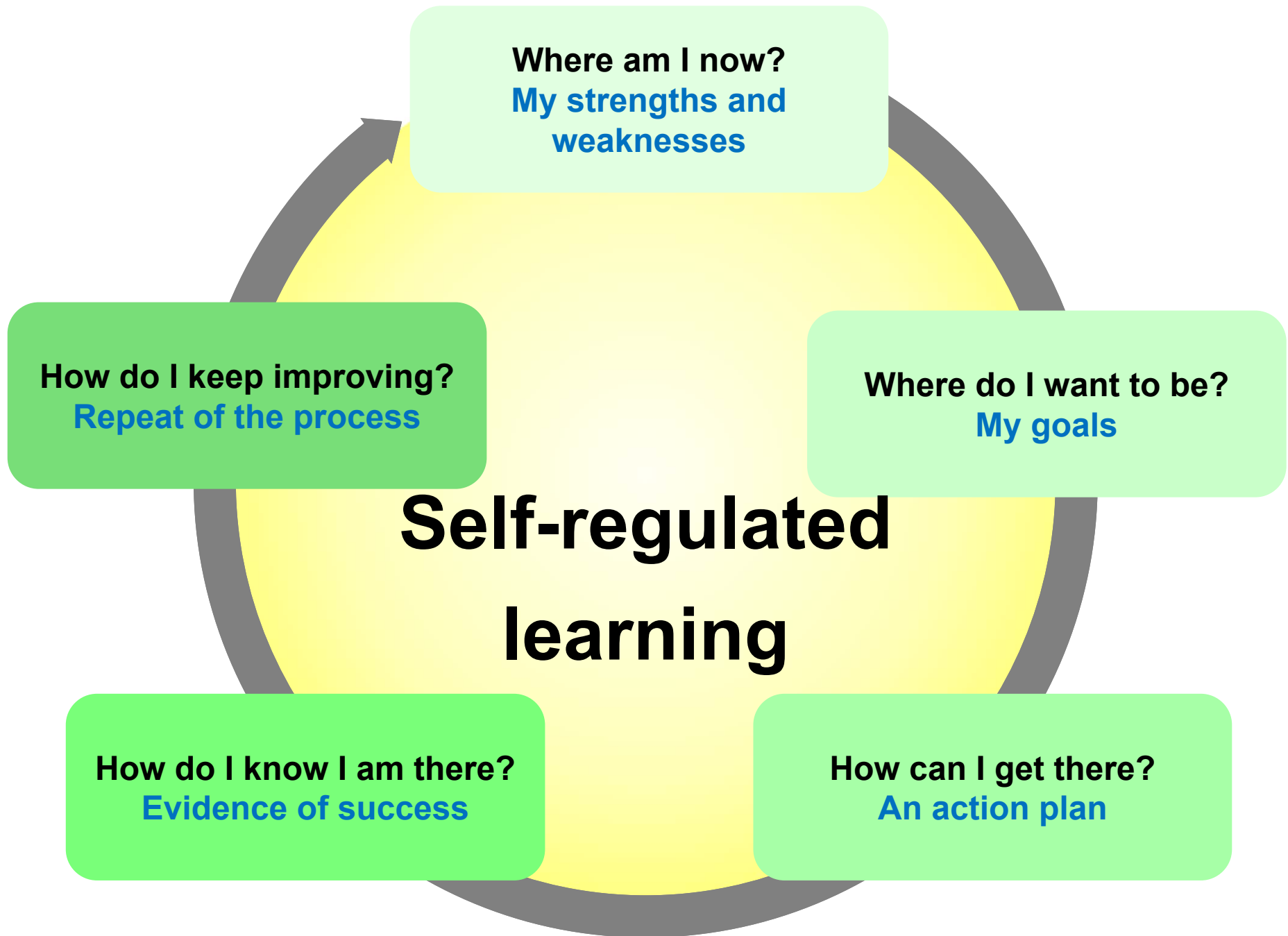
Development of Competencies



Self-directed (regulated) and lifelong learning

Principle: To become self-directed learners, students must learn to assess the demands of the task, evaluate their own knowledge and skills, plan their approach, monitor their progress, and adjust their strategies as needed.

Susan Ambrose et al. (2010) *How Learning Works*, San Francisco: Jossey-Bass, p. 191.



Six levels of reflection

Level VI

Adaptive, self-regulating
Adapting to new situations

Level V

Transfer
Application of learning to new situations

Level IV

Internalization, connecting, chunking
Making the connection

Level III

Making meaning
Reflecting on the learning experience

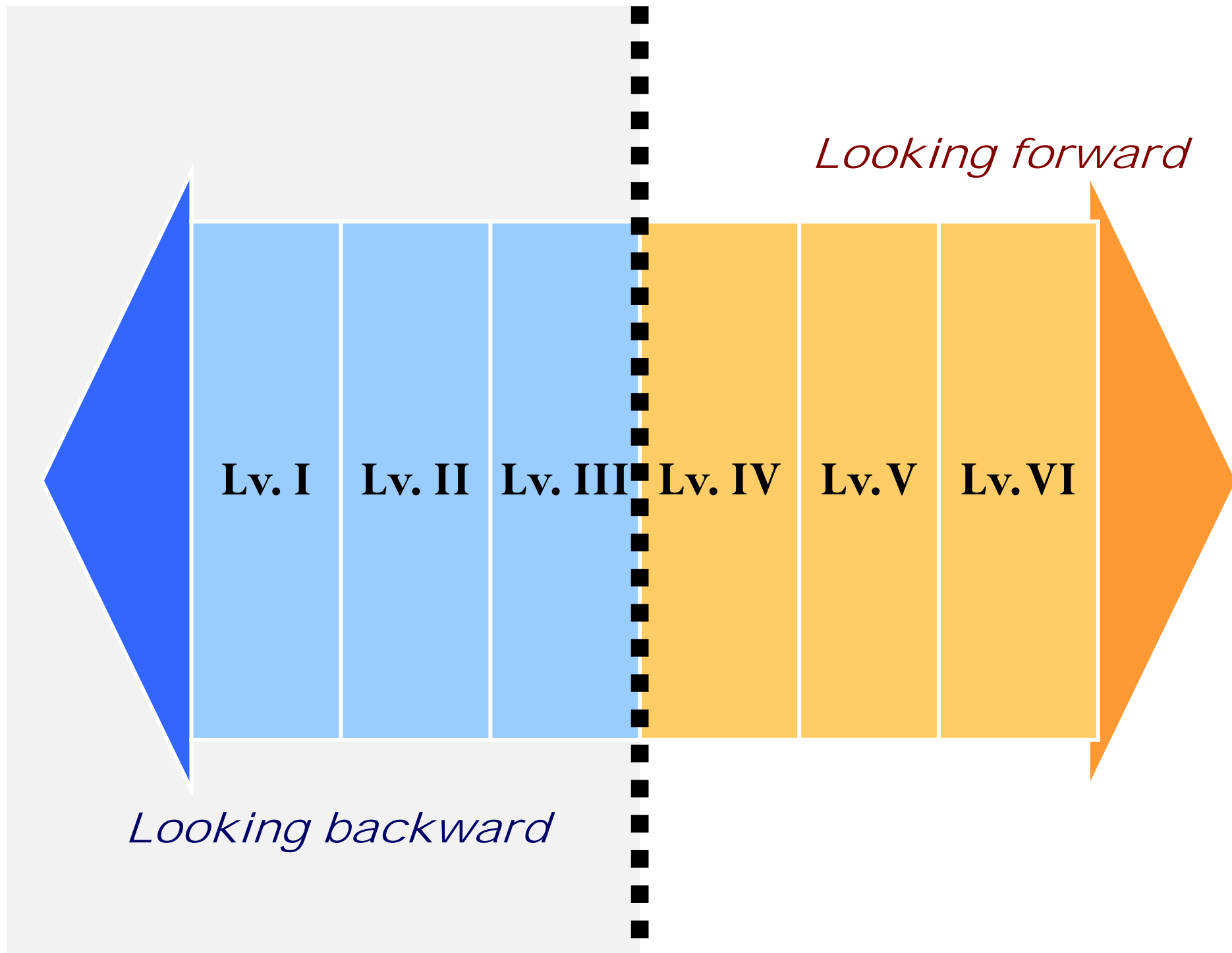
Level II

Superficial, surface learning
Record and make explicit the experience

Level I

Passive
Experience only

Source: The Windmills Programme (2001)



Approaches to Learning

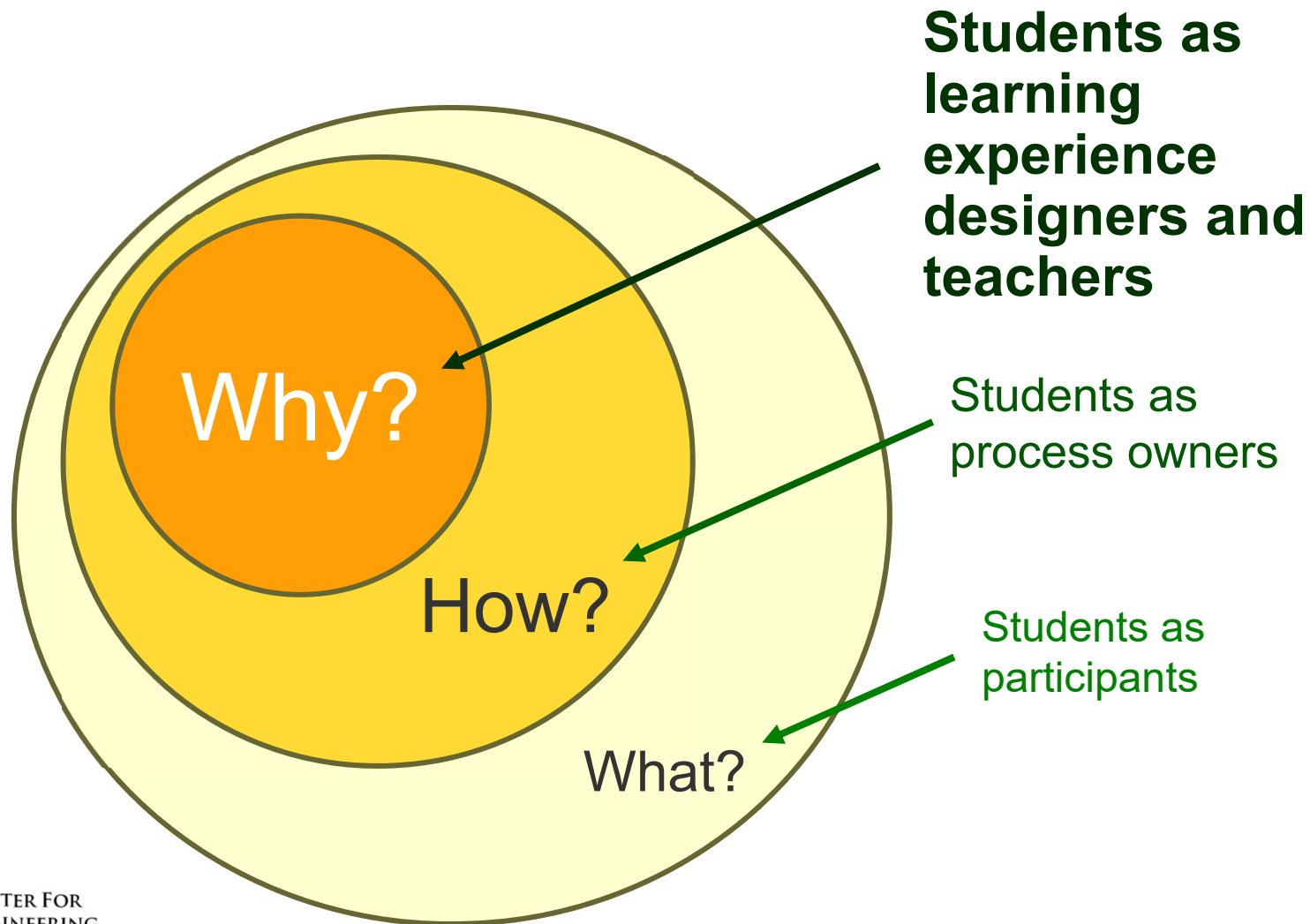
Approach	Motive	Strategy
Deep	Intrinsic: study to <i>actualize interest and competence</i> in particular academic subjects.	Read widely, interrelate with previous relevant knowledge.
Surface	Instrumental: main purpose is to <i>meet requirements minimally</i> : a balance between working too hard and failing.	Limit target to bare essentials and reproduce through rote learning.
Achieving	<i>Obtain high grades</i> , whether or not material is interesting.	Behave as “model students” in organizing one’s time and working space.

J. B. Biggs, *Student Approaches to Learning and Studying*, Australian Council for Education Research (1987).

Project Rationales and Objectives

- Engaging students as a deep learner in OLE as a result of enabling students to reflect deeper.
- Enhancing students' engagement and their sense of ownership as well as developing students' reflective habits.
- Fostering self-regulated learning capacities among students.

Roles of students





我的計劃

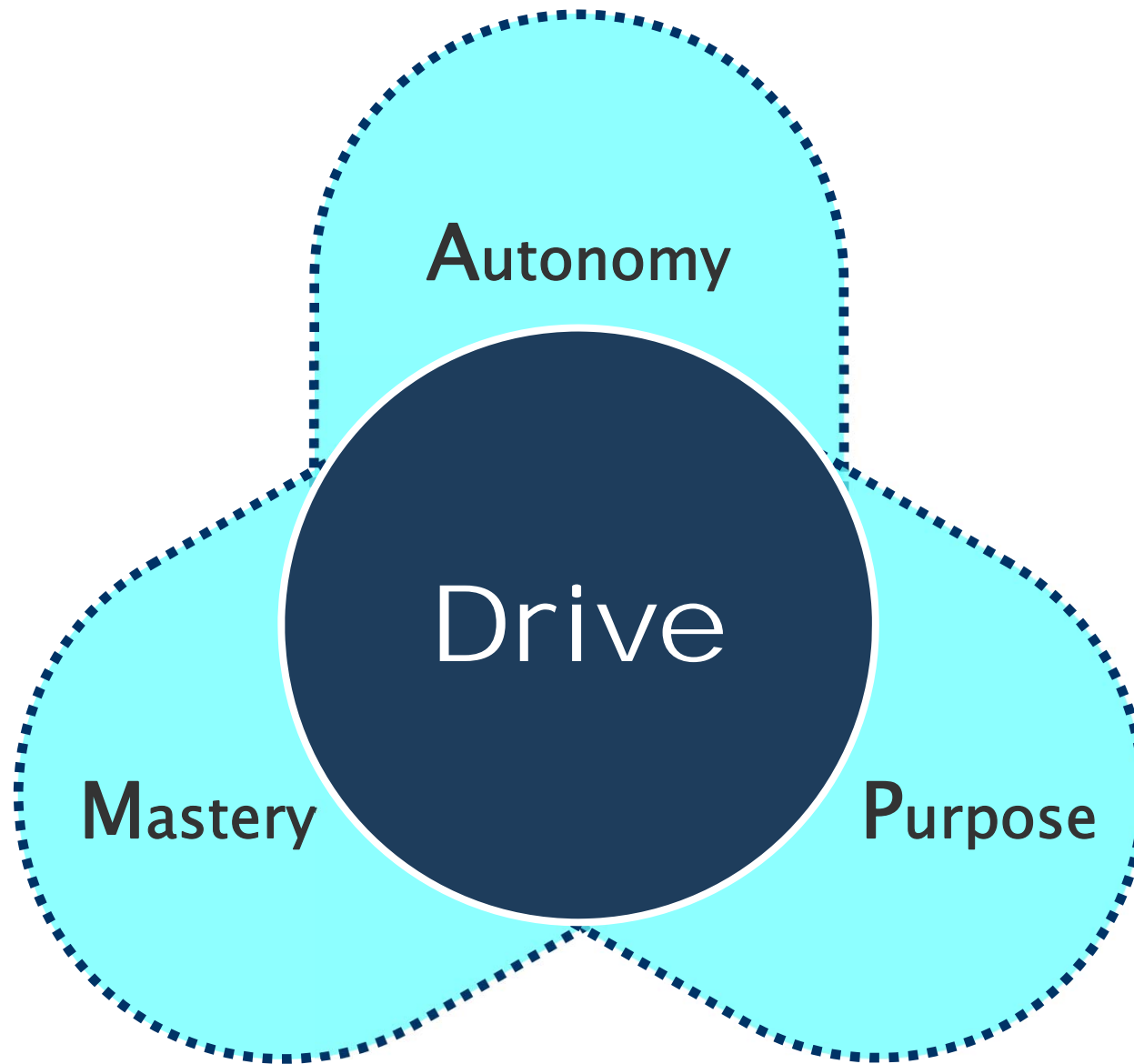


我的學習

“**BEGIN
WITH
THE END
IN MIND**”

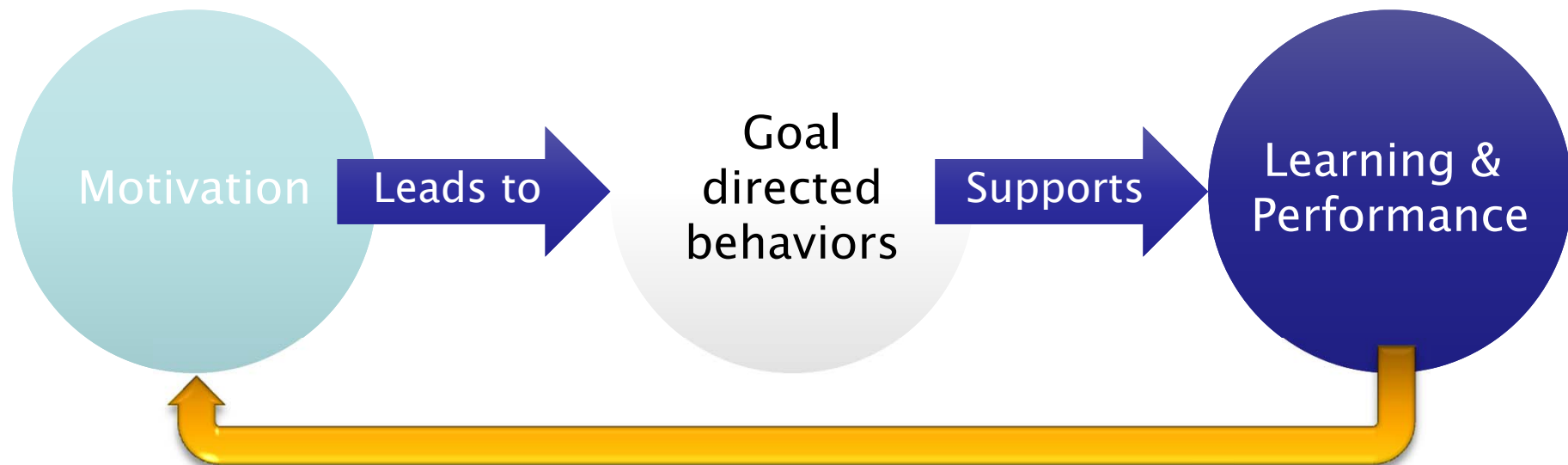
Covey 1989






Daniel H. Pink (2009) *Drive: The Surprising Truth About What Motivates Us*, Canongate

A Framework for success



Building on existing practice: *OLE contexts*

Emerging practices	Established practices	Advanced practices
Level 1-3	Level 4-5	Level 6
Students as PARTICIPANTS	Students as EFFECTIVE LEARNERS	Students as SELF-REGULATED LEARNERS
PARTICIPATION	OWNERSHIP	AUTHORSHIP



Deep Learner with
Sustainability & Wider
Transfer



Three Discussion Areas

- In what ways can students benefit from Student-LED experiences?
- What are the facilitators and inhibitors for students' learning in context?
- How to find evidence of learning in Student-LED?

Two Key Theoretical Concepts (1)

“An inner endorsement of one's actions—the sense that one's actions emanate from oneself and are one's own”
(Deci & Ryan, 1987)

- **Autonomy**

- I want to do the project.
- I have freedom to decide whether to do it or not.
- I have a choice over how I would like to work on my project.



Two Key Theoretical Concepts (2)

- Supplemental instruction / peer-led instruction

“Senior or more capable students teaching and helping junior students or less capable ones” (e.g., Stone and Jacob, 2006)

Student-LED, Student-Led and Teacher-Led

Student-LED

Students have high *autonomy*.

Students design learning experiences (*supplemental instruction*).

Teachers provide support and guidance.

Student-Led

Students have high *autonomy*.

Students plan and carry out activities.

Teachers provide support and guidance.

Teacher-Led

Students have low *autonomy*.

Students undertake tasks designed by the teacher.

Teachers design learning experiences and give instruction.


Adopt Student-LED Approach in HK?

Pros

- High level of autonomy enables students to take ownership of their learning process
- Supplemental instruction benefits both the student teachers and the fellow students (teaching to learn, learning to teach)
- Some successful examples in the US and the UK

Cons

- High level of autonomy could confuse students especially those who are used to a teacher-led environment
- Chinese students are seen as relatively passive and not value autonomy (Yuen, 2010)
- Challenges in promoting student-centred learning in HK (Yeung, 2009) and few successful experiences in Asian countries



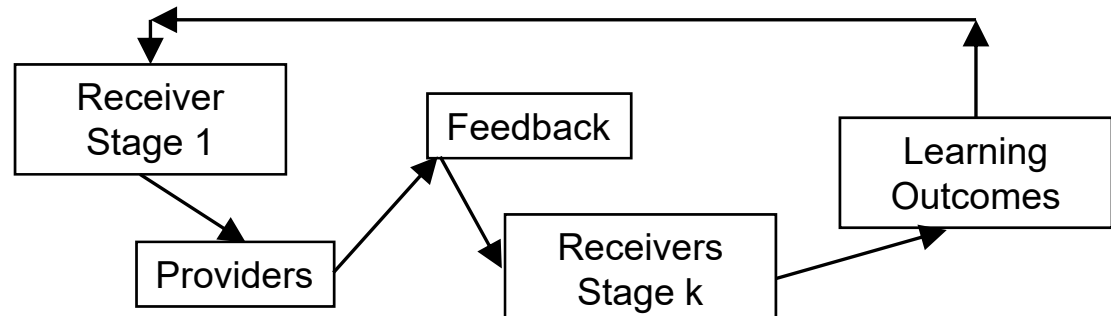
Promoters of student learning

- “*Feedback is central to the development of student learning*” (Hattie and Timperley 2007; Hounsell 2003)
- “Students often view comments by tutors on their work as *difficult to understand* (e.g. Weaver 2006); *lacking specific advice on how to improve* (e.g. Higgins, Hartley, and Skelton 2001); or *difficult to act upon* (e.g. Gibbs 2006; Poulos and Mahony 2008)

Feedback to Learning Theories

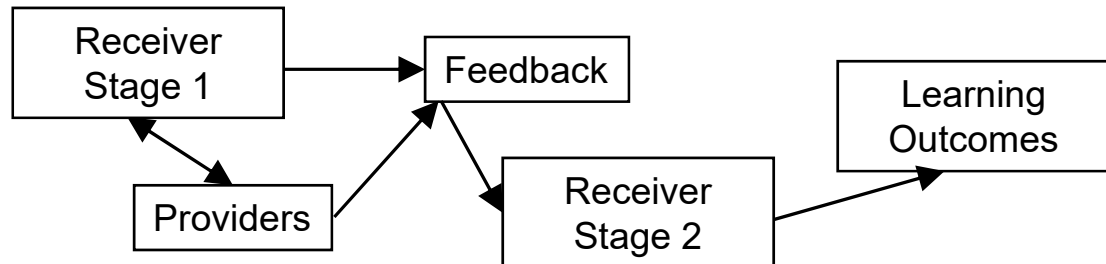
e.g. Student: I think we can improve our classroom environment

Meta-Cognitivism and
Social Constructivism



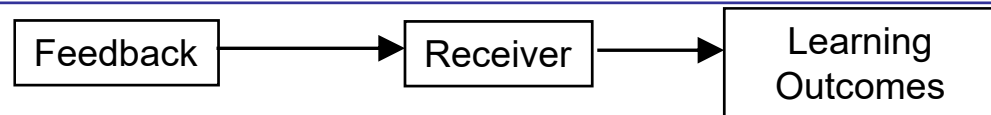
e.g. Teacher: Is running in classroom good or bad?

Social Cultural Theory



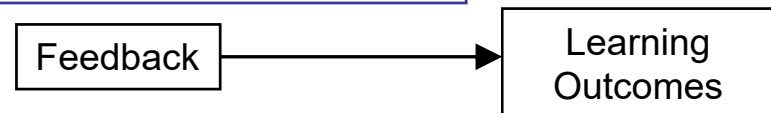
e.g. Teacher: Bad students run in classrooms, you should not run.

Cognitivism



e.g. Teacher: Detention for running in classroom

Behaviorism





Feedback to Learning Theories

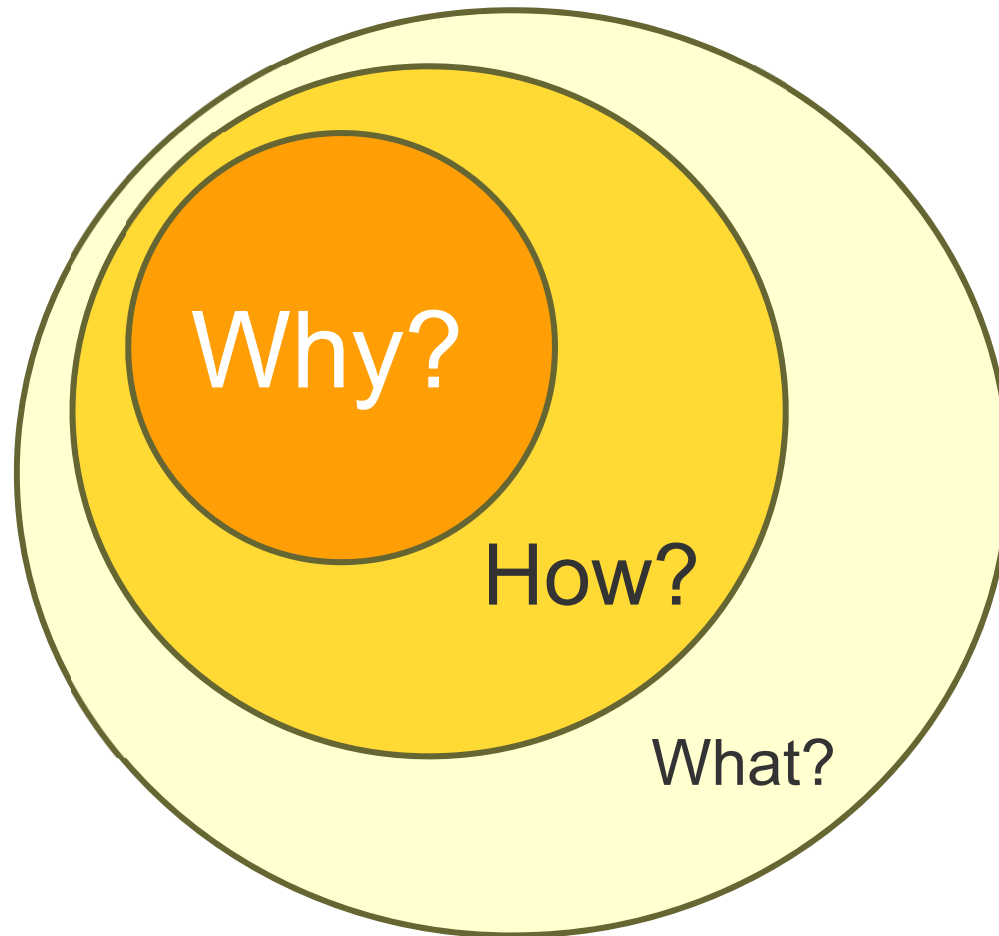
- **Behaviorism** focuses on visible behaviour of students, which can be manipulated by means of stimuli such as praise and punishment (*Atkinson, Atkinson, & Hilgard, 1983; Skinner, 1968*).
- **Cognitivism** stresses human information processing (*Newell & Simon, 1972; Shuell, 1986*).
- **Social cultural theory** highlights human intentions and possibilities and how these can be developed (*Vygotsky, 1978*).
- **Meta cognitivism** emphasizes students learn to learn (*Brown, 1987; Garner, 1987*). Self-regulated learning (*Boekaerts, Pintrich, & Zeidner, 2000*) fits into this learning theory.
- **Social constructivism** focuses on how learners are actively engaged in constructing their knowledge (*Jonassen, 1991; Paris & Byrne, 1989; Vanderbilt Cognition and Technology Group, 1990*).



Part 2

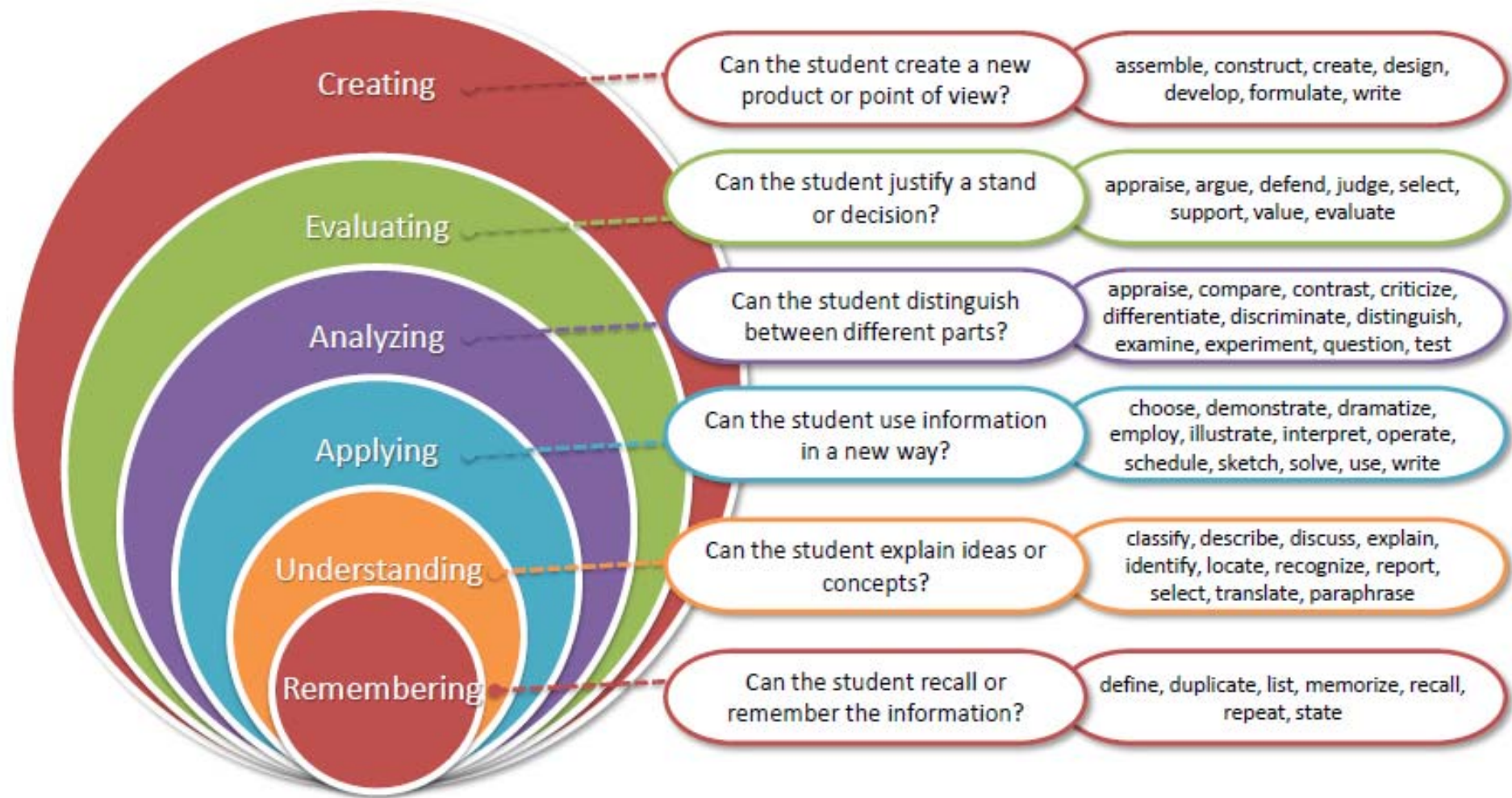
- Summative vs. Formative feedback
- What is your most effective strategy of giving feedback?
 - Timing
 - Task-related characteristics
 - Affective and emotional characteristics
 - Effects on learners
- Share your good practices and challenges faced when providing feedback

The Golden Circle



[TED: Simon Sinek](#)

Bloom's taxonomy

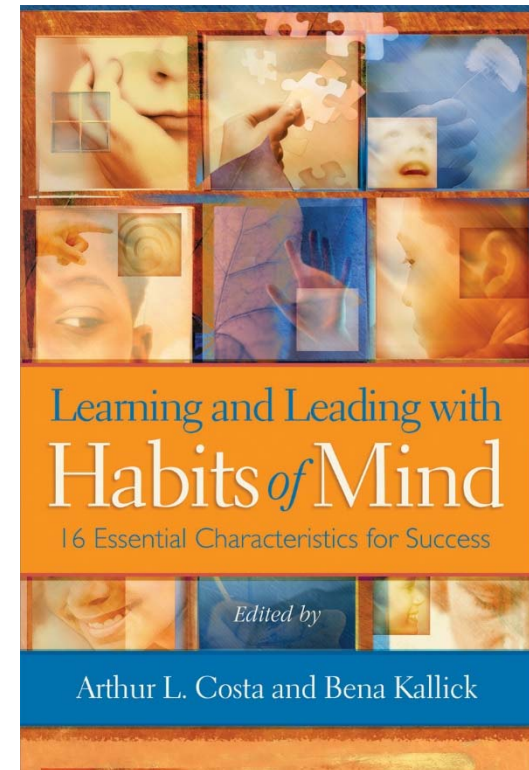


Bloom, B., Englehart, M. Furst, E., Hill, W., & Krathwohl, D. (1956). *Taxonomy of educational objectives: The classification of educational goals. Handbook I: Cognitive domain*. New York, Toronto: Longmans, Green

Components of an effective reflection

- ✓ Avoid being restrained to a single template
- ✓ Use of repetitive exercises may easily lead to repetitive responses.
- ✓ Relate to **emotions**
- ✓ Extract evidence of success from experience
- ✓ Articulate deep thinking
- ✓ Transform *activity* experience to *learning* experience

“Reflection on work enhance its meaning.
Reflection on experiences encourages insight
and complex learning.”





Concluding Remarks

- Student-LED generated positive impacts on student development in self-regulated learning, leadership for learning, and reflective habits
- Hong Kong secondary school students value autonomy and are willing to take ownership with support from their teacher



References

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