Pillars of Effective Teaching

Improving student learning and teacher effectiveness

(this is not a pyramid scheme)

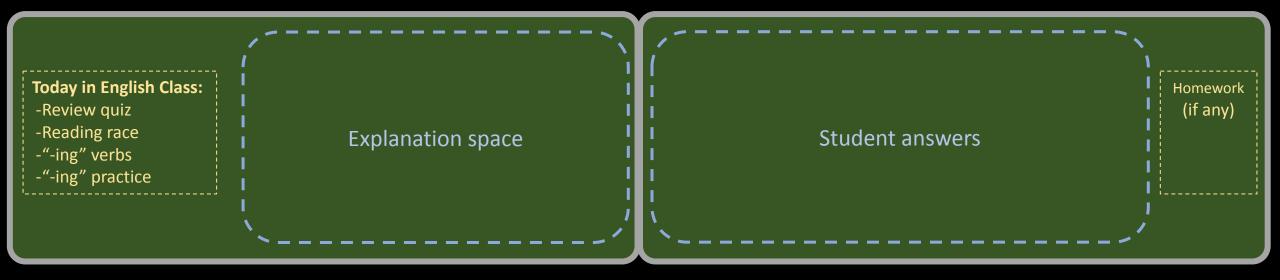
What can you do to improve your teaching?

4 aspects:

- 1. Physical environment
- 2. <u>Time management</u>
- 3. <u>Instructional management</u>
- 4. <u>Teacher impact</u>

Physical: Space and layout

- Accessible to everyone
- Efficient (non-disruptive to the lesson)
- Encouraging the behaviours they are intended for Eg. Blackboard arrangement



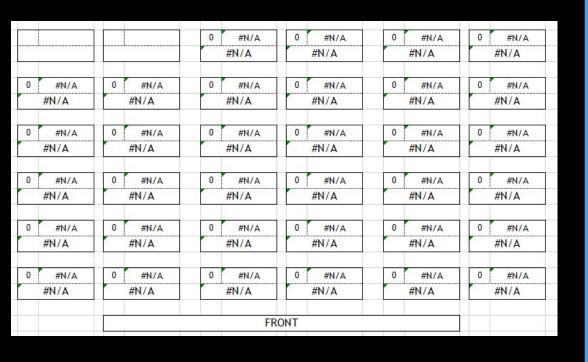
Physical: Educational Technology

*Lessons should *not* be arranged around resources; resources should compliment the lesson!*

Resource	Effective	Ineffective
Slideshow	Use of pointers to direct attention, segmenting information, relevant multimedia content, recording student answers for later access, accessing pre-created information, visual impact	Disorganization/too many stimuli, information overload, visibility difficulties, no interaction
Music	Soundtracks, classical BGM for speaking activities to avoid "breaking the silence" anxiety	Loud, vocal-up, suspenseful, popular music that distracts
Graphic Organizers	Colour/shape-coded pictures, charts, information fragments that teachers/students can interact with for visual cues	Memes, size/colour/shape inconsistencies
Dice	Multi-option element of randomness in activities	"point" counters, unmatched number of options

Physical: Seating arrangement

Traditional rows



Pros:

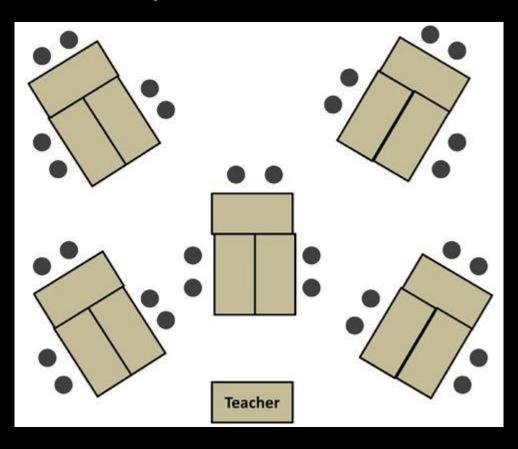
- Reinforces classroom management (disruptions less likely)
- Conducive to independent work
- Improved teacher behaviour

Cons:

- Only students in front/middle engaged
- Isolating (does not promote interaction)
- Harder to remember students
- Passive classroom

Physical: Seating arrangement

Groups



Pros:

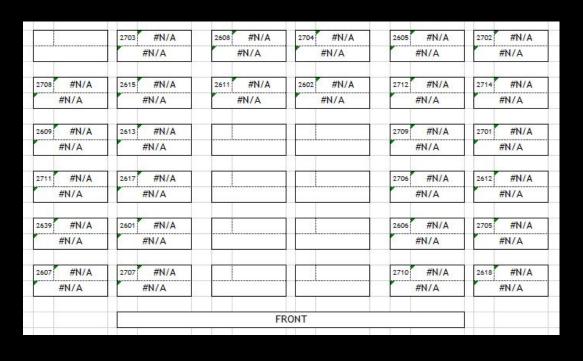
- Good for discussion/peer assistance
- Conducive to group work/ participation
- Active classroom
- Easy mobility

Cons:

- Encourages disruption
- Hard to monitor / manage
- Likely needs to be set up specifically for lesson
- Some students always facing away/rotating
- NG for individual /full-class activities
- Students in back not engaged

Physical: Seating arrangement

U-shape



Pros:

- Easy to arrange pairs (vertical/horizont al)
- All desks facing front means work is still individual
- No concentrated area of participation

Cons:

- Students in front row get nervous
- Isolating (does not promote interaction)
- Teacher movement limited
- Students
 constantly have
 to rotate in
 seats/move with
 little room

Physical: Tips

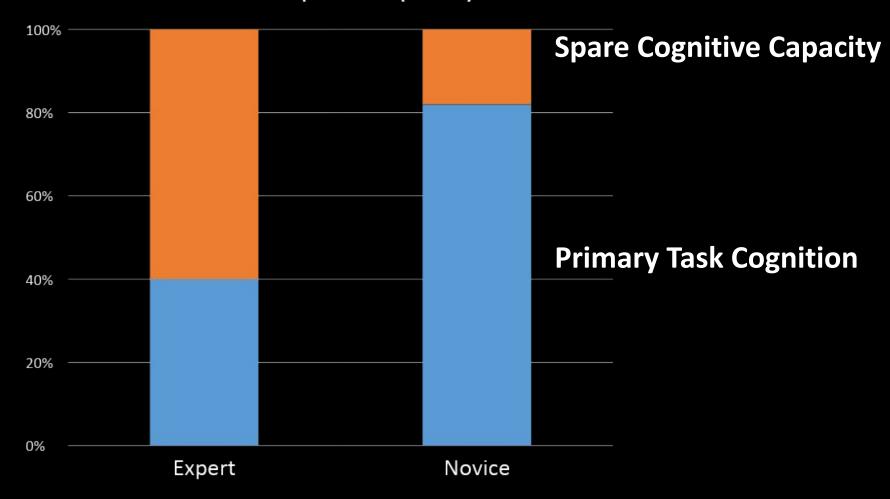
- Include your seating arrangement in your lesson plan. If it's consistent across lessons, ask students to arrange class before lesson. If ALT/OTE can get to class before the bell, start rearranging desks.
- Try to encourage the school to cover the legs of desks/chairs with tennis balls or chair socks, or ask students to pick up desks when moving. Loud transitions are distracting (and bad for those with noise sensitivity).
- Build habits and routines. Using the same resources / activities frequently in different lessons will make transitions more efficient.
- Encourage students to keep their desks free of clutter: have on it only what they need in that lesson, and everything they need that lesson. No looking for a pencil / book walls to sleep behind.

Time: Pacing

- Plan review activities for the end of lessons: comprehension check takes less time and can achieve the most important goal: understanding
- Check your lesson plan for what is most important. Move it as early in the LP as you logically can
- Leave time for questions or re-explaining. Better to have backup comprehension activities to reinforce learning then rush through content

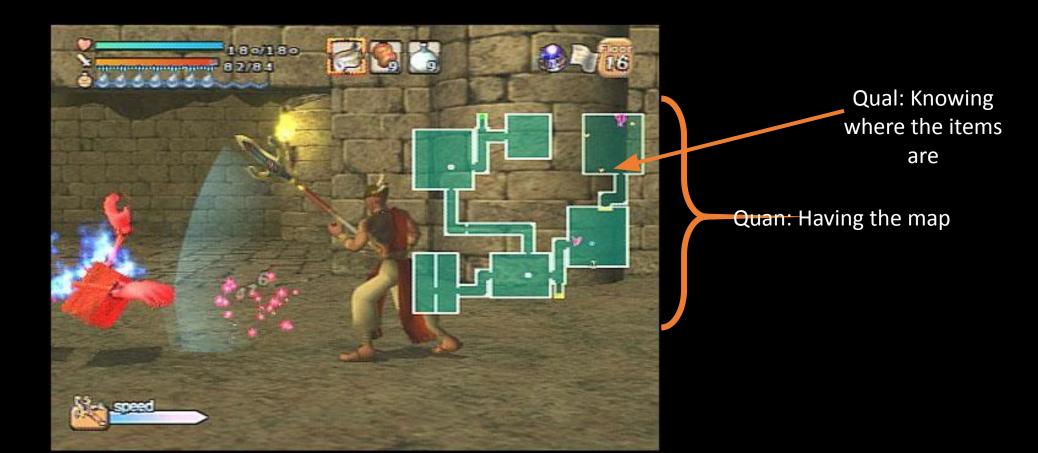
Time: Cognitive Capacity

Active & Spare Capacity



Time: Qualitative vs Quantitative Knowledge

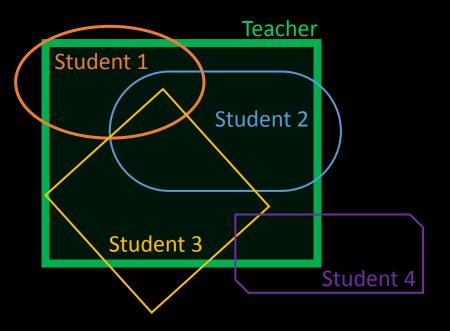
- Quantitative knowledge: How much is understood
- Qualitative learning: How well it is understood



Time: Prior Knowledge

Learning:







Instructional: Organizing a lesson

- Big questions
- Graphic Organizers
- Conceptual Frameworks / "hooks"
- Threshold Concepts

Instructional: Continuity

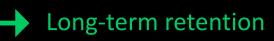
- Refers to both connections between lesson topics, as well as review of information
- Approaches to learning:

Surface Approach:

- Focus on the signs (e.g. textual clues)
- Focus on discreet elements
- Memorize information and procedures for assessments
- Unreflectively associate concepts and facts
- Fail to distinguish principles/evidence, new/old info
- Treat tasks as external imposition
- Have an external emphasis (driven by external assessments, knowledge non-contextual)

Deep Approach:

- Focus on what is signified (text meaning)
- Relate/contrast new/old knowledge
- Relate concepts to everyday practice
- Distinguish evidence/argument
- Organize and structure content
- Have an internal emphasis (driven by personal / immediate reasons for learning)



Instructional: Test-enhanced learning

Assessment of learning

i) Answers marked but not necessarily given CF

ii) At clear divisions or ends

iii) High-stakes

Assessment for learning

i) Always includes corrective feedback

Frequent and spaced out over time

encoded or

iii) low or no-stakes

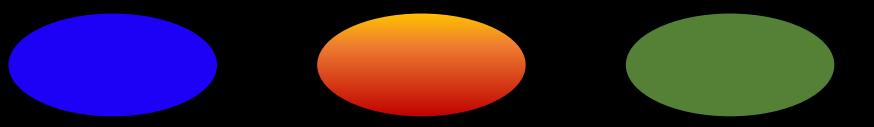
ii)

Instructional: Reflection

- Journaling
- Letter exchanges
- Writing warm-up
- Exit slips
- Answering the Big Question
- 3-2-1
- Elimination facts

Pop Quiz!

- 1. Which long-term retention strategy is best for elementary school 6th graders?
- 2. What's the difference between conceptual frameworks and threshold concepts?
- 3. A tourist is lost at Sannomiya station and trying to get to Ikuta shrine. Google Map's GPS isn't syncing correctly. Give one example of quantitative teaching, and one of qualitative teaching.
- 4. Which of these colours would be most effective as a slideshow background in your 5th period lesson?





Teacher impact: Soft skills

- Hidden curriculum: the teaching of social, cultural, behavioural norms, values, and beliefs not openly intended to be taught or traditionally assessed
- Include: How to act in a group, morals, habits, hierarchical divides and the preservation of social privileges

Teacher Impact: Zone of Proximal Development (ZPD)

• "The zone between what a learner can do independently...and what cannot be done safely, even when assisted by a more competent member of the community" (Lave & Wenger, 1991, via Pratt & Smulders, 2016)

Water Temple

- Content-based, independent of learner autonomy
- On the dependence-independence continuum:
 "far enough to challenge the learner, but not so far as to cause frustration and self-doubt"
- Exists for hard / soft skills too

Teacher impact: Self-improvement

- Student feedback
- Post-lesson reflection questions
 - What worked? Why?
 - What didn't work? Why?
 - Was the sequencing of material appropriate and helpful?
 - Was the pace appropriate?
 - What would you do the same next time?
 - What would you do differently?

"What was learned is more important than what was taught."

— Daniel D. Pratt & Sandra Jarvis Selinger

References and suggested readings

- https://rdw.rowan.edu/cgi/viewcontent.cgi?article=2089&context=etd
- https://files.eric.ed.gov/fulltext/EJ1152568.pdf
- https://www.researchgate.net/publication/243771420_Classroom_organization_and_management
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- https://cei.umn.edu/teaching-active-learning-classroom-alc
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- Pratt, Daniel D., Smulders Dave et al. "Five Perspectives on Teaching: Mapping a Plurality of the Good." Second ed. Krieger Publishing Company. 2016.