



Problem-Based Learning the 4 Core Areas (PBL4C): History, Processes & Principles

Warabhorn Preechaporn
Training Programme Division
SEAMEO RECSAM

Overview Today

1. A Brief History
2. PBL – the Processes
3. PBL4C – the Principles
4. Q&A

PBL - History

- Started in Medical Schools, 1960s
- Terminologies
 - Context
 - Cases
 - Scenarios
- PBL4C model
 - in Mathematics Education,
RESCAM, 2008

PBL – Models

Problem

Scenario 1

Scenario 2

PBL - Processes

Among the Main Processes of a PBL lesson:

- ▶ Understanding the **Context**
- ▶ Identifying the **Problem** at hand
- ▶ Gathering the information given unique to the problem
- ▶ Procuring extra information in the view of finding a solution to the problem
- ▶ Generating possible solutions
- ▶ Communicating, accommodating, selecting and executing the best solution
- ▶ Making a presentation of the solution
- ▶ Evaluation – Self, Peer, Leader & Expert

*(Finkle & Torp, 1995; Lambros, 2002;
Wee, 2004; Teoh & Wara, 2011)*

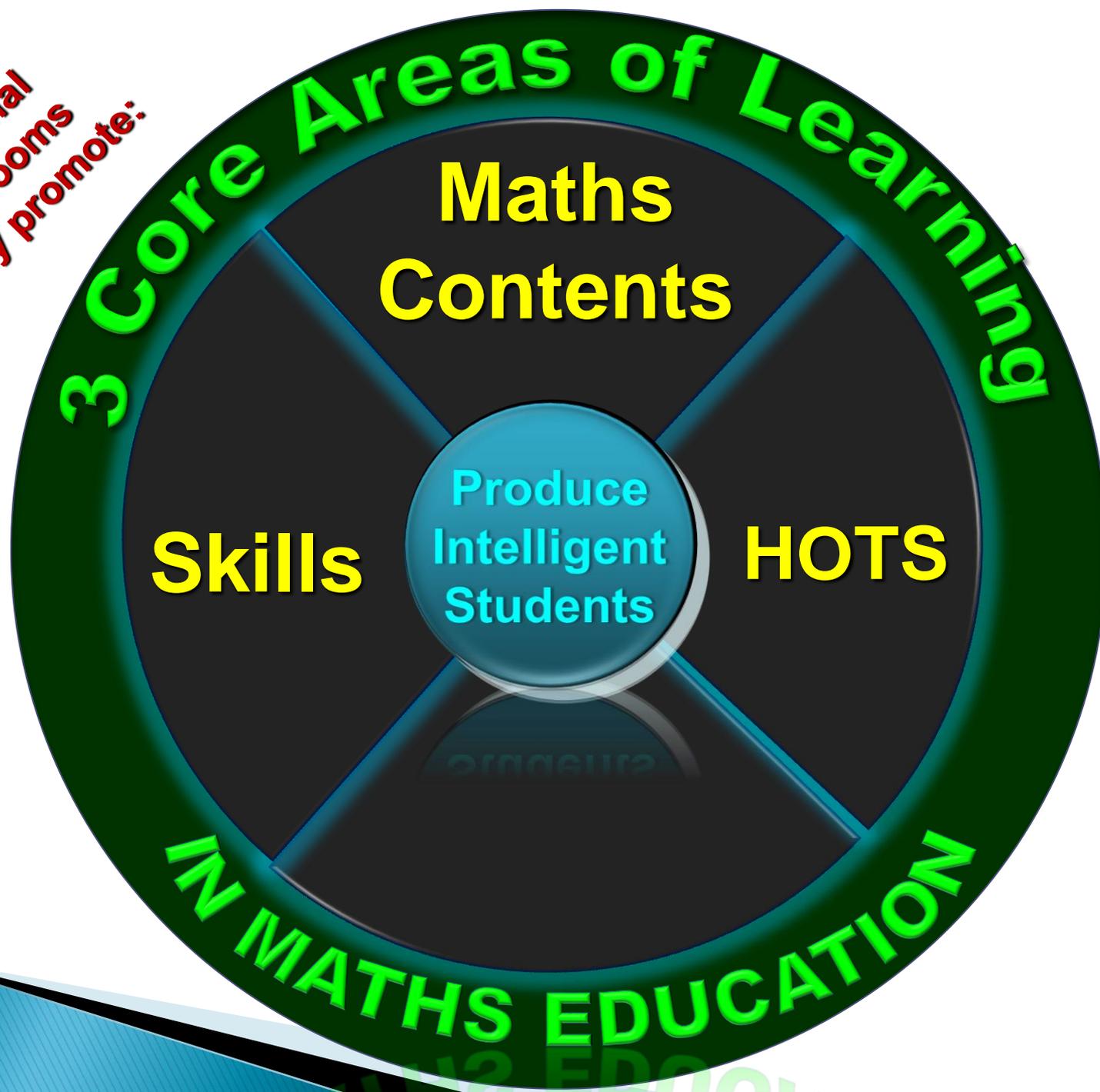
PBL - Generic Principles

- 1. Based on Realistic Life Problems**
- 2. Student-centred, individual nurturing**
- 3. Small teams of 3-4 students**
- 4. Cooperative & collaborative**
- 5. Inquiry based**
- 6. Facilitated in various degrees**
- 7. Self directed**
- 8. Self access**

PBL - Generic Principles

9. Constructivistic
10. Individual accountability
11. Team responsibility
12. Life long skills
13. Promotes problem solving skills
14. Promotes creative thinking
15. Applies content in context realistically
16. Authentic assessment
 - self / peer / leader / teacher assessment

**Traditional
classrooms
usually promote:**



Taiwanese chemists claim trial

Four charged with trafficking in RM61mil of Eramin 5 drug

By MEERA VIJAYAN and AUSTIN CAMOENS
newsdesk@thestar.com.com

JOHOR BARU: Four Taiwanese chemists pleaded not guilty at a magistrates court here yesterday to trafficking in 1,439kg of the Eramin 5 drug with a street value of RM61mil.

Chung Sheng Wen, 36, Chang Yen Ming, 34, Chang Yung Sheng, 30, and Wu Sheng Yuan, 30, were charged with trafficking in the drug at a factory in 12, Jalan Angkasa Emas 6 in the Tebrau 2 industrial area here on March 22. They face the mandatory death sentence if convicted.

The four entered their plea after the charge was read out in Mandarin.

Six locals, who were also detained in connection with the case, were released.

DPP Husmin Hussin asked the court for another date for hearing pending the results of a chemist report.

Magistrate Hafizah Johor Ariff Johor denied bail for the four and

fixed July 3 for mention.

In another case, a security guard raised eyebrows in a magistrates court when he said that he carried a parang because his employer had not equipped him with a baton.

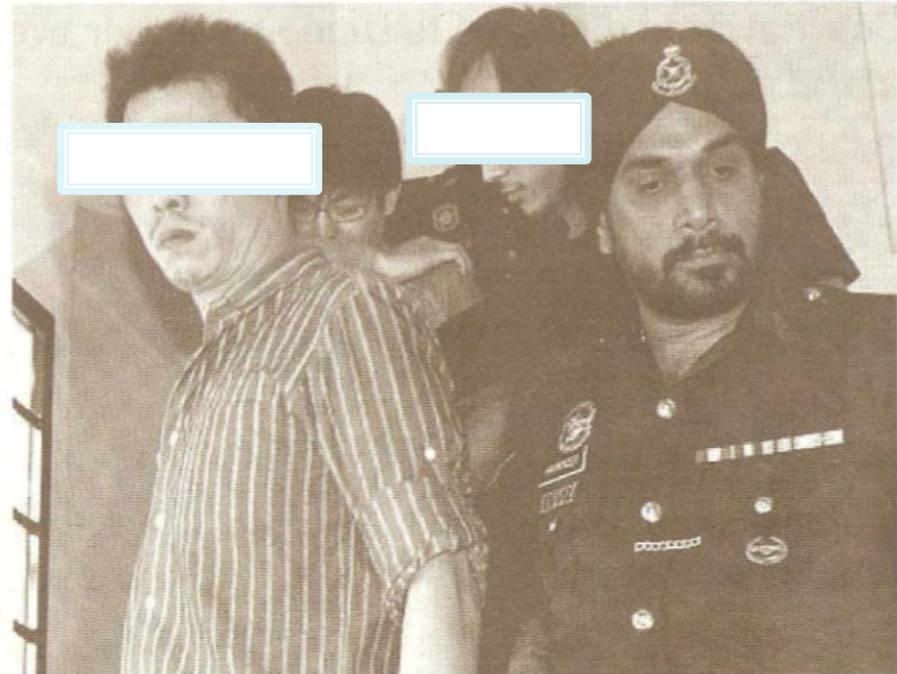
Mohamad Yazid Zakaria, 20, from Taman Ungku Tun Aminah in Skudai, was charged with unlawfully possessing the 55cm-long parang at the traffic lights near the Jalan Tun Fatimah/Hulubalang junction near his home on March 27.

He was charged under Section 6 (1) of the Corrosive and Explosive Substances and Offensive Weapons Act 1958.

After pleading guilty, he told magistrate Hafizah Johor Ariff Johor that he armed himself with the weapon because his factory had been robbed by parang-wielding criminals in the past and that the firm had not given him a baton to defend himself.

DPP Farah Ezlin Yusop Khan asked the court to impose a stiff penalty as it was unusual for a security guard to arm himself with such a weapon.

Magistrate Hafizah sentenced him to one month's jail.



Not guilty plea: The four Taiwanese men being led away by a policeman after they were charged at a magistrates court in Johor Baru with trafficking 1,439kg of the Eramin 5 drug.

Intelligent chemists with undisputed content knowledge and acquired skills harnessing their thinking processes to solve the problems that they are facing.

What is the cause ? What is the remedy ?

Ex-don nabbed

Former deputy
vice-chancellor
to be charged
with forging
V-C's signature

KUALA LUMPUR: A former deputy vice-chancellor of a state-owned university is expected to be charged in court on Monday.

He had allegedly falsified documents to obtain an extension of his service contract. He was detained at about 4.30pm yesterday when he went to the Malaysian Anti-Corruption Commission office in Putrajaya to record a statement.
Among the other developments were:

> Three postal clerks were charged in Klang with criminal breach of trust for allegedly approving false claims for road tax rebates.

> MIC president Datuk Seri S. Samy Vellu gives statement in connection with the alleged discrepancies of over RM5mil in the Maju Institute of Educational Development accounts.

> SEE PAGES 3, 28

Highly intelligent professor with obvious academic and professional knowledge, with thoughts of solving his problem by exercising his forging skills in an unwise decision

What is the cause ? What is the remedy ?

PBL4C - Specific Principles

PBL4C is a PBL hybrid model integrating the

4 Core Areas of Learning:

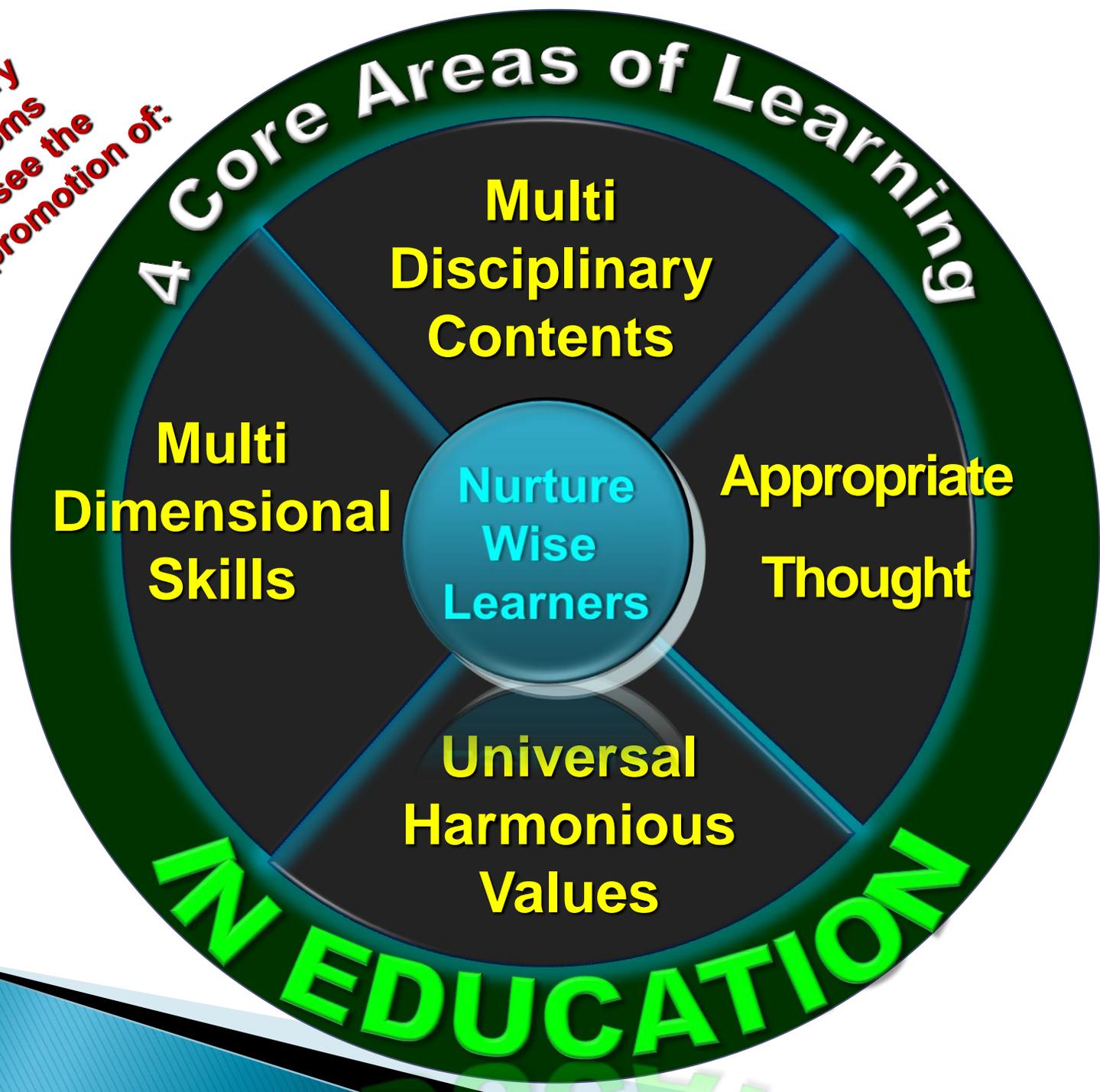
1. multi-disciplinary content knowledge
2. multi-dimensional skills
3. appropriate thought &
4. universal harmonious values.



PBL4C – Special Principles

1. Learning how to take care on oneself.
2. How to attain higher levels of happiness & contentment.
3. Good relationships are essential for learning & living.
4. When thoughts are appropriate, it does not matter if they are high (HOTS) or low (LOTS).
5. If the thoughts are of high levels but NOT appropriate, then we are all in trouble !
(Q: Who are in trouble?)
6. Peace and harmony is a requisite for happiness.
Some wise people say: Peace is the highest happiness.
7. And the smile is an indicator of happiness.
8. 6 modes of inputs – to know (external & internal senses)
9. 3 modes of output – physical, verbal & mind

In the 21st Century classrooms we foresee the gradual promotion of:



PBL4C - Principles

UNESCO's ESD-EIU

- "Building peace in the minds of men and women"

UNESCO's 4 Pillars of Learning

- "Learning to know. Learning to do.
Learning to live together. Learning to be."

3-Stage Model (Holbrook)

- Contextualising, Decontextualising,
Recontextualising

Decision-making based on universal harmonious values

Appropriate Thoughts (HOTS & LOTS)



Thank you

**for
your kind attention**