

# 問題為本學習 (Problem-based Learning)

## Setting learning objectives



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# The characteristic of Problem Based Learning

- **The work had to be empirical**
- **Offering resources and guidelines**
- **Acquire knowledge through discovering and problem solving**
- **No routine lecture or exercise**



# Objectives of PBL learning mode

**To help students to develop the followings skills or abilities effectively**

- 1. Critical thinking**
- 2. Solving empirical problem**
- 3. Collect, evaluate and use resource (knowledge)**
- 4. Collaborative learning skill**
- 5. Verbal report and communication skill**



# Background

**Module: Educational Statistics**

**Number of lesson:2**

**Number of students: 10**

**Participants: BEd(P) + BEd(S) Year 4  
students**



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# Objectives of the statistics lesson

**After the lesson, students can**

- 1. identify the focus of the problems**
- 2. apply statistics knowledge to solve the empirical statistics problem**
- 3. search for, collect and use proper resources**
- 4. learn collaborative and communication skills**
- 5. do oral presentation**



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# Objective I (Identify key problems)

Identify the key words



Identify key problem



Find suitable the strategy



Expected solution



# Objective II (Using statistics knowledge)

- Scenarios 1: 1. Personal factors  
2. Social factors
- Scenarios 2: 1. Qualitative analysis  
2. Quantitative analysis
- Scenarios 3: 1. Correlation analysis  
2. Regression analysis
- Scenarios 4: 1. Independent sample t - test  
2. Confident Interval
- Scenarios 5: 1. Regression model



# Objective III (proper resources)

- **Journals**
- **Websites**
- **Lecture notes**
- **Texts**



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# Objective IV (Collaborative learning)

- Find and share useful information
- Identify the key problems
- Find a suitable strategy
- Carry out the plan collaboratively



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# Objective V (Communication skill)

- Presentation
- Group Discussion



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