Designing and Implementing Curriculum-based Projects

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Nonglinxia Road Primary School, Guangzhou, China
Welcome to visit
Nonglinxia Road Primary School
I have been working in Nonglinxia Road Primary School for 16 years. I am in charge of Teachers’ professional development and teaching affairs of our school. We benefit from PBL since 2010. We see students’ great changes on 21st century skills. Teachers’ teaching philosophy are different now. We wish teachers can use PBL in more subjects so that we can finally help our students to achieve more.
Project-based Tele-collaborative learning (2010-2011)
OVERVIEW

- Make Preparation
- Project Execution and Outputs
- Knowledge Accumulation
- Practical Application
- Creation of Product
- Draw Conclusion
- Make Reflection
PHASE ONE: Knowledge Accumulation

• Collect information: have opera lessons, interview
• Reorganize information: handwritten paper
• Share information: create a proposal
Activities to Stimulate Students

- watch an opera
- an opera lesson
- visit GD opera bureau
- actors and actress visit schools
Data Searching for Formative Achievement

Handwrite paper

Questionnaire and proposal
Students’ Practice based on Knowledge Accumulation

drawing opera characters

dance with long sleeves
Practical Achievement Result in Phase Two

- role-drawing
- encaustic painting
- singing opera on concert
Value
Create a new teaching and learning model
An example for tele-collaboration learning

Challenges
. It needs extra time for the project.
. Teachers say PBL won’t work in curriculum teaching.
Our class

I like Wednesdays. I can run on P.E. class. Draw on art class. So, I like Wednesdays.
Our Assessment
Designing Projects

Analyzing of objectives of textbooks

Combination of objectives and 21st skills.

To break the isolation of subjects

Project-based Learning
(2011-2012)
Objectives

Math Group: Students should know that there are a lot of math knowledge from Southern China Architecture, they can design their dream house with these knowledge.

English Group: Try to use what they have learned in the English text book, and introduce how attractive Guangzhou is to people from other countries.

Opera Group: further and professional study on Guangdong Opera, and try to make a performance.
2011-2012

Tradition and Heritage

-----Architecture in Southern China (Math Group)
-----Attractive Guangzhou (English Group)
-----Guangdong Opera (Opera Group)
Innovative Practices in Teaching and Learning: A Regional Seminar
Challenge One
participants

Math Group         5 teachers        18 students  
English Group     3 teachers       18 students  
Opera   Group     3 teachers        18 students  

Project leader:   Wu Qiong, principal of Nonglinxia Road Primary School  

Guidance of experts:  Dr. Zhao Jianhua, professor of South China Normal University  

Key contact:  Huang Mingyan, student of Dr. Zhao  

Executor: Li Nihong, teacher of Nonglinxia Road Primary School
Architecture in Southern China

Attractive Guangzhou

Guangdong Opera

Attractive Guangzhou
Implementation

Collecting material
Reorganization of materials
Calculating
Drawing the sketch
Making a dream house
Assessment

Math Group

Collecting Materials
Study of language
Reorganization of materials
Making a google map
Presentation

English Group
Ms. Huang Yan, a teacher from Guangdong Opera School. She comes to teach Opera every Friday afternoon.
The study in Opera Group is very professional in this part. They are learning singing, gestures and actions.
Math Group

This is the math group. They are having a math class.
| 项目学习记录表—参观建筑 | 时间：2012年4月4日教师

| 建筑物名称 | 陈家祠 |
| 整个建筑物的风格特点 | 建筑物整体为空心形，黄墙绿瓦，屋檐翘角，木雕、石雕、灰雕、陶雕，色彩鲜明，造型典雅。 |
| 建筑物历史简介 | 陈家祠是清代著名的岭南园林建筑，始建于清光绪年间，具有典型的岭南建筑风格。 |
| 墙的材料、颜色 | 红砖，颜色为红色。 |
| 窗户特点 | 窗户为双层玻璃，形状为方形。 |
| 屋顶的形状特点 | 马鞍式屋顶，屋檐翘角，木雕、石雕、灰雕、陶雕，色彩鲜明，造型典雅。 |

布局描述：（可以在景点拿到宣传资料和导游图）
This is the English Group. They are having an English class.
Presentation after research on Guangzhou

English Group
Today is Friday, March 16, I am very pleased to report on behalf of our group of project learning people. In the past week, our group of students through the Internet, such as reading, learn more about some of Lingnan architecture knowledge, our goal is to use we learn mathematics demonstrate these characteristics of Lingnan architecture. This event made me see that groups need everyone in the group work together to mutual cooperation, difficulties with trying to overcome, unity of power is a real monster!
Challenge Two

• **Traditional math class:**

  计算下面长方形的面积，

  解：$S = ab$
  
  $= 8 \times 2$
  
  $= 16 \text{ (cm}^2\text{)}$

  （教师板演解题格式）

  出示学生练习，

  练习：计算下列图形的面积。

  解：$S = ab$
  
  $= 12 \times 6$
  
  $= 72 \text{ (cm}^2\text{)}$

  解：$S = ab$
  
  $= 6 \times 6$
  
  $= 36 \text{ (cm}^2\text{)}$

• **PBL class**
Output

Math Group: My Dream House

English Group: A Google Map of Guangzhou

Opera Group: Performance of a script
My Dream House
A Google Map of Guangzhou
Value & Reflection

Combination of PBL and curriculum. Help the education reform. Examples for other subjects to promote PBL. Students’ abilities be developed. Teachers’ development

Without long-distanced collaboration

EC website doesn’t help us a lot because of language problem.

Students didn’t play a key role.
Challenge One

• How did I convince teachers try PBL?
• teacher’s teaching philosophy
• evaluation of teachers
• build up a team
• regular discussion
Challenge Two

• How to select a topic based on the curriculum?
  • We need insight.
  • Teachers should have extensive knowledge
• brainstorming /mind manager
Challenge Three

• What did TEIs do to support us?
• solving theoretical problems
• a contact person
• sum up the results from practice to theory
Challenge Four

• How did we solve language problem?
• ask English teachers’ help
• invite some parents for volunteers
Achievement Exposition of Nonglinxia Road Primary School 2012

English Group

Math Group

Opera Group
Comments from other school teachers

Please leave your valuable opinion!
Comments from parents

请留下您宝贵的意见！

能够提高学生英语兴趣，培养语文学科意识。请继续努力，

同学们学习状态还不错。希望继续保持，

英语学习与课后研究结合紧密。
通过对语文的调查，学生学会了归纳、思考。

通过调查内容的分析，学生提高了英语口表达能力，
最后对调查项目的文章描述，学生具备了英语写作能力。

本项目将枯燥的英语语法知识，转化成实际应用的技能，
通过各种形式的活动，让学生在实践中掌握。

请继续努力，教学提高会做得更好。

对学生的关心和帮助，我们深表感谢。

继续加油，期待更好的表现。

Comments from educational officials

* PBL works
* High quality
* Teachers’ concept of teaching has been changed
* Helps students develop their abilities
  * A smaller topic
  * Critical thinking
  * Get closer to subject teaching
Comments from other school teachers

* PBL is different from traditional methods.
* The products are outstanding. They will never be seen in traditional class.
* They will have PBL in their school.
Thank you for your listening!

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