Designing and Implementing Curriculum-based Projects

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Nonglinxia Road Primary School, Guangzhou, China
Welcome to visit
Nonglinxia Road Primary School
My Role

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.
Curriculum System in China

School-based curriculum

national curriculum

local curriculum

School-based curriculum
Our Timetable

I like Wednesdays.
I can run on P.E. class. Draw on art class.
So, I like Wednesdays.
Our Classroom
Our Assessment
What affects our design?

• Why teachers refused trying new ways?
• What do teachers want to benefit from new methods?
• How can PBL solve teachers’ problems?
• How do I convince teachers to try PBL?
Project-based Tele-collaborative learning (2010-2011)
Designing Projects

Analyzing of objectives of textbooks

Combination of objectives and 21st skills.

To break the isolation of subjects
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)
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

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.
Math Group

项目学习记录表—参观建筑
时间：2012年4月16日

建筑物名称：
陵墓

建筑风格特点：
陵墓是中国古代的墓葬形式，通常采用土木结构，具有一定的象征意义。陵墓的建筑风格特点主要体现在其规模、位置和结构等方面。陵墓的规模一般较大，位置多选在高处或交通便利的地方。陵墓的结构通常包括墓室、墓道、封土堆等部分。陵墓的建筑风格还受到当时的社会文化、宗教信仰等因素的影响。

建筑物历史简介：
陵墓是古代帝王及贵族的墓葬形式，具有重要的历史和文化价值。陵墓的建筑风格特点主要体现在其规模、位置和结构等方面。陵墓的规模一般较大，位置多选在高处或交通便利的地方。陵墓的结构通常包括墓室、墓道、封土堆等部分。陵墓的建筑风格还受到当时的社会文化、宗教信仰等因素的影响。

建筑物的外景图：
陵墓的外景图展示了陵墓的规模和结构。陵墓的规模一般较大，位置多选在高处或交通便利的地方。陵墓的结构通常包括墓室、墓道、封土堆等部分。陵墓的建筑风格还受到当时的社会文化、宗教信仰等因素的影响。

建筑物的平面图：
陵墓的平面图展示了陵墓的规模和结构。陵墓的规模一般较大，位置多选在高处或交通便利的地方。陵墓的结构通常包括墓室、墓道、封土堆等部分。陵墓的建筑风格还受到当时的社会文化、宗教信仰等因素的影响。

建筑物的剖面图：
陵墓的剖面图展示了陵墓的规模和结构。陵墓的规模一般较大，位置多选在高处或交通便利的地方。陵墓的结构通常包括墓室、墓道、封土堆等部分。陵墓的建筑风格还受到当时的社会文化、宗教信仰等因素的影响。

建筑物的局部图：
陵墓的局部图展示了陵墓的规模和结构。陵墓的规模一般较大，位置多选在高处或交通便利的地方。陵墓的结构通常包括墓室、墓道、封土堆等部分。陵墓的建筑风格还受到当时的社会文化、宗教信仰等因素的影响。
This is the English Group. They are having an English class.
Presentation after research on Guangzhou

English Group
On March the second, we started the project learning about English. The teacher introduced what the English project learning was first. Our plan is to introduce Guangzhou to the friends from the other countries. We are going to talk about Guangzhou from these contents: the city construction, recreation and entertainment, medical and education, economic and trade. It is a hard job for us. But we are happy to happy to have this chance.

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。

  \[
  \text{面积} = a \times b \\
  = 8 \times 2 \\
  = 16 \text{ (cm}^2) 
  \]

  （教师板演解题格式）

  练习：计算下列图形的面积。

  \[
  \text{面积} = a \times b \\
  = 12 \times 6 \\
  = 72 \text{ (cm}^2) 
  \]

  \[
  \text{面积} = a \times b \\
  = 6 \times 6 \\
  = 36 \text{ (cm}^2) 
  \]

  PBL class
Challenge Three

• Language problem
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.
Achievement Exposition of Nonglinxia Road Primary School 2012
Comments from other school teachers

Comments from other school teachers:

1. The English teachers in our school have implemented the guidelines for teaching English and have successfully integrated them into the curriculum. This has enhanced the quality of English teaching and improved students' academic performance.

2. The teachers have been actively involved in various educational activities, which have contributed to the overall improvement of students' learning outcomes.

3. The integration of technology in the classroom has further enriched the teaching methods and made learning more engaging and effective.

4. The teachers have received positive feedback from students and parents for their dedication and hard work.

5. The school has organized regular workshops for teachers to enhance their professional skills and knowledge.

6. The teachers have shown great initiative in organizing extracurricular activities, which have provided students with opportunities to develop their talents and interests.

7. The teachers have been proactive in seeking feedback from students and parents, which has helped in making necessary adjustments to teaching methods and strategies.

8. The teachers have demonstrated a strong commitment to continuous professional development, regularly attending training sessions and conferences.

9. The teachers have encouraged students to participate in various competitions and festivals, which have helped in nurturing their creative abilities and confidence.

10. The teachers have been effective in managing classroom discipline and maintaining a positive learning environment.

11. The teachers have shown great patience and understanding towards students, making them feel comfortable and supported.

12. The teachers have been active in organizing parent-teacher meetings, which have helped in building a strong partnership between the school and families.

13. The teachers have been instrumental in promoting values such as honesty, hard work, and perseverance among students.

14. The teachers have been proactive in addressing any issues or concerns raised by students or parents, ensuring a timely and effective resolution.

15. The teachers have been supportive in the development of students' social skills, encouraging teamwork and cooperation.

16. The teachers have been effective in identifying and catering to the diverse learning needs of students.

17. The teachers have been active in the development of the school's curriculum, incorporating innovative teaching strategies and materials.

18. The teachers have shown great commitment to the school's mission and vision, always striving to achieve excellence in education.

19. The teachers have been proactive in seeking and implementing feedback from students, parents, and other stakeholders to continuously improve the teaching and learning process.

20. The teachers have been effective in fostering a positive and inclusive learning environment, where all students feel valued and respected.
Comments from parents

Please leave your valuable opinion!
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.
Video of class.

Video of interviews of principal/teacher/students
Thank you for your listening!

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