

# Curriculum reform and development of Primary education

2016

# What challenges in primary education do we encounter?





# Future direction...

**Elevate students'  
successful learning**



**Fully develop  
student's  
characteristics,  
potentials and  
creativity**

# Curriculum reform and development



第9/2006號法律  
非高等教育制度綱要法

附錄五：

《非高等教育發展十年規劃（2011-2020年）》

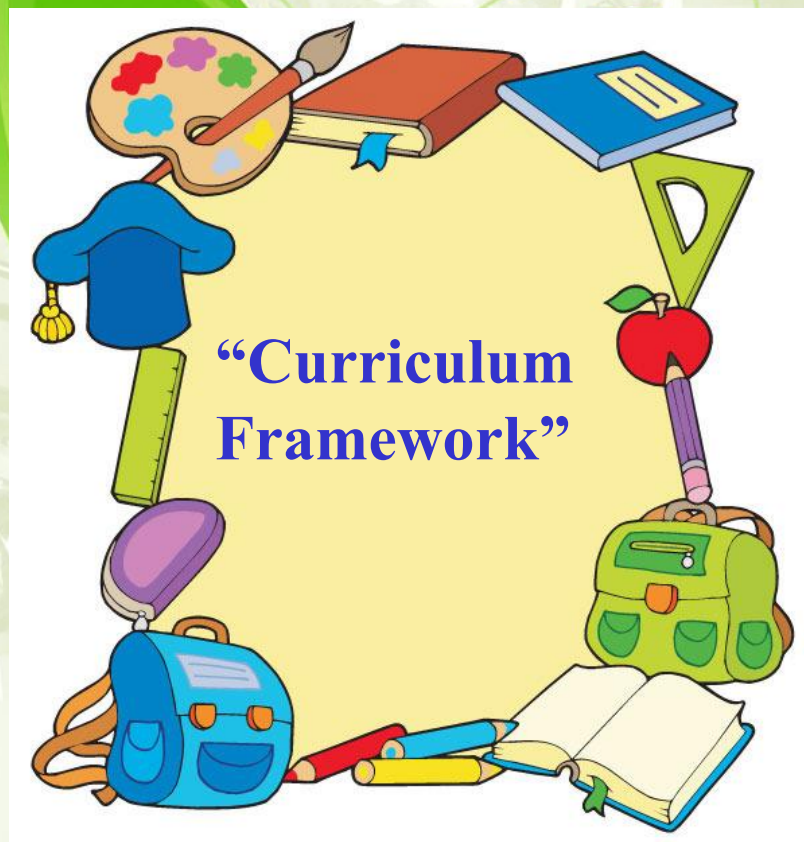
- Enhance students' creativity;
- Provide diverse learning opportunities to enhance the development of their personality and potential;
- Establish good living and learning habits;
- Give them a thorough and coherent learning experience.



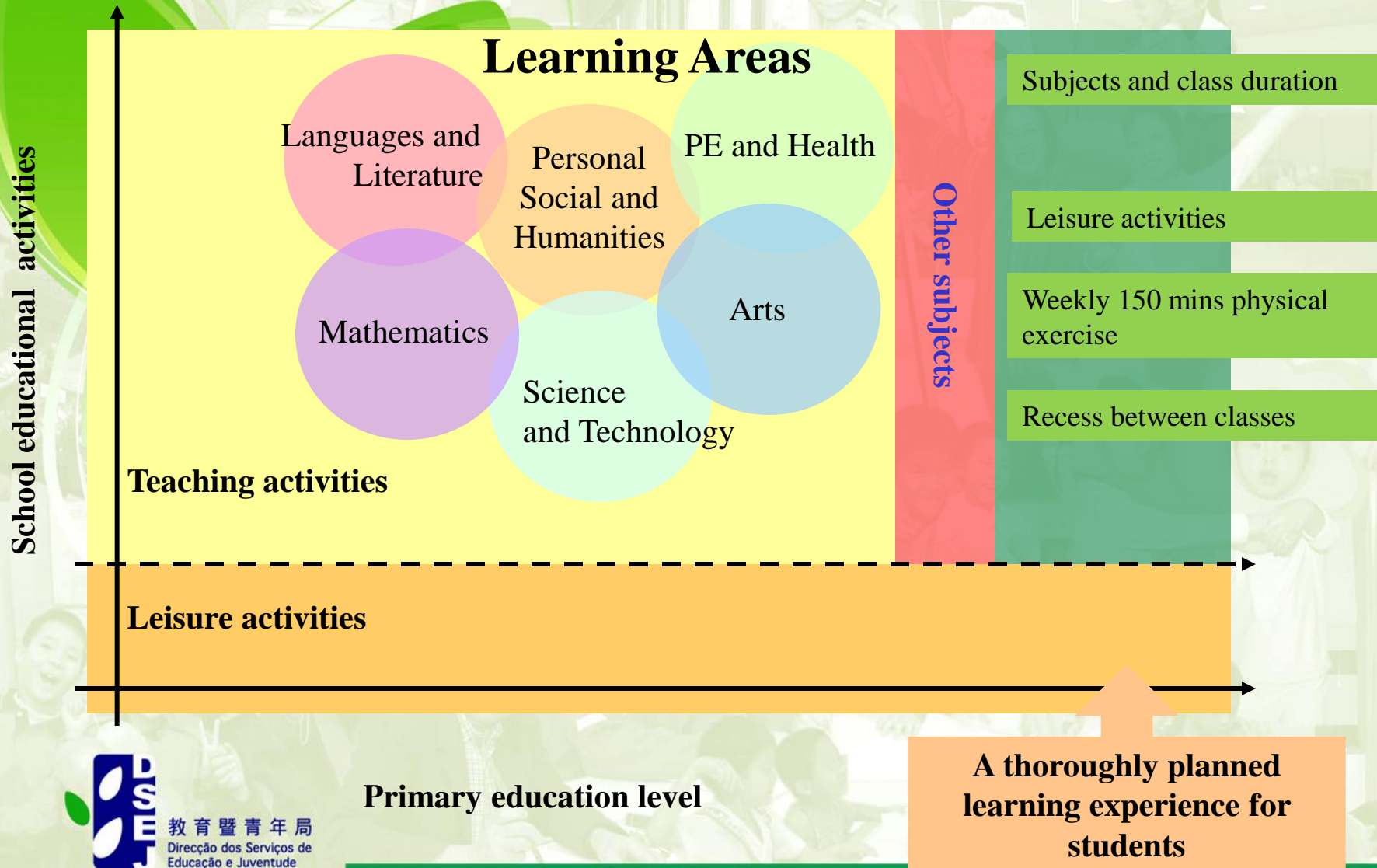
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# Content of the “reform”



# Changes brought by the 《Framework》



# Changes brought by the 《Framework》

## Primary Education



Kindergarten graduation

Requirements of Basic Academic Attainments for Infant Education

Organization and implementation of education and teaching

Teaching material design and selection

Teaching content selection

Creating a good positive education environment

Teaching plans writing



Upon primary graduation:

- What kinds of knowledge have been acquired;
- What abilities have been acquired;
- What kind of character has been formed.





## Implementation of the 《Framework》 in primary education level

- ✓ **How to schedule classes?**
- ✓ **How to schedule leisure activities?**
- ✓ **How to schedule the weekly 150 mins physical exercises ?**
- ✓ **How to schedule the recess time between classes?**



**Curriculum  
planning**

	<b>Learning Areas</b>	<b>Subjects</b>		<b>Weekly teaching activity time (minutes)</b>
<b>Teaching activities</b>	Language and Literature	First Language (Medium of instruction)		1080 to 1400
		Second Language		
	Mathematics	Mathematics		
	Personal, Social and Humanities Education	Moral and Civic Education		
		General Knowledge		
	Science and Scientific Technology	Information Technology		
	Physical Education and Health	Physical Education and Health		
	Arts	Arts	Visual Arts, Music, Dancing, Drama	
<b>Other subjects</b>				
<b>Leisure activities</b>				

**Min. 35 minutes per class;  
Max. 45 minutes per class**

**Not less than 70 minutes of PE class per week**

**Averagely 27-35 class periods calculated with 40 minutes per class**

Teaching activities

Learning Area	Subject	Primary Education level Teaching activity time for different subjects ( minutes )	Primary Education level Total teaching activity time ( mintues )
Language and Literature	First Language ( Medium of instruction )	49920 - 83200	224640 to 291200
	Second Language	41600 - 58240	
Mathematics	Mathematics	33280 - 49920	
Personal, social and Humanities	Personal, social and Humanities	Not less than 8320	
	General Knowledge	Not less than 33280	
Science and Technology	Science and Technology	Not less than 8320	
	Physical Education and Health	Not less than 16640	
Arts	Arts	Not less than 33280	
<b>Other subjects</b>		0 – 66560	
Leisure activities		Not less than 14240 minutes for primary education level	

**Teaching activity time does not include term/ final exam periods**



## Primary Curriculum Plan - Illustration chart

Primary 1 to 6						
Teaching activities	Learning Areas	Subjects	Primary education level Teaching activity time for all subjects	Weekly teaching activity time	Primary education level Total teaching activity time	
		Language and Literature	First Language (Medium of instruction)	Averagely 6-10 class periods per week	Around 27-35 class periods per week	A total of 208 weeks in teaching activity time for the 6 levels (35 weeks each for P1-P5; 33 weeks for P6; Not including term/final exam periods)
			Second Language	Averagely 5-7 class periods per week		
		Mathematics	Averagely 4-6 class periods per week			
		Personal, Social and Humanities Education	Moral and Civic Education	On average, at least 1 class periods per week		
			General Knowledge	On average, at least 4 class periods per week		
		Science and Technology	Information Technology	On average, at least 1 class periods per week		
		Physical Education and Health	Physical Education and Health	On average, at least 2 class periods per week		
		Arts	Arts	On average, at least 4 class periods per week		
			Other subjects	Averagely 0-8 class periods per week		
<b>Leisure activities</b>			On average, at least 2 class periods per week (Calculated with 30 weeks each for P1-P5, and 28 weeks for P6)			

# Curriculum plan (Sample)

Learning Area	Subjects	Weekly No. of class periods for all subjects			Total class time in primary education level (minutes)
		P1 – P3 35 weeks	P4 – P5 35 weeks	P6 33 weeks	
Language & Literature	Chinese	8	8	7	65240
	English	6	7	7	54040
Mathematics	Mathematics	5	6	6	45720
Personal, Social & Humanities Education	Moral and Civic Education	1	1	1	8320
	Religion (Other subjects)	1	1	1	8320
Science & Technology	General Knowledge	4	4	5	34600
	Information & Technology	1	1	1	8320
Physical Education & Health	Physical Education & Health	2	2	2	16640
Arts	Visual Arts	2	2	2	16640
	Music	2	2	2	16640
No. of class periods for all subjects		32 class periods	34 class periods	34 class periods	274480
Weekly class time for all subjects (1080 – 1400 mins)		1280 mins	1360 mins	1360 mins	
Leisure activities	Field & Track, Ping Pong, Football, Basketball, Drawing, Cooking, Dancing, etc.	2 class periods per week (30 weeks)	2 class periods per week (30 weeks)	2 class periods per week (28 weeks)	14240



Curriculum  
plan

Schedule

## Schedule (Sample)

**Remark:**

- 32 class periods per week, plus 1 class period for Weekly Assembly and 2 class periods for leisure activity;
- 75 mins weekly for physical exercises (Not including PE lessons).

P1- P3					
Week	Mon	Tue	Wed	Thurs	Fri
Time (40 mins per class)					
7:40 8:00	Students entering school				
8:00 – 8:30	Student queue-up, Assembly, Reading session/ Gymnastics (5 mins)				
8:30 – 9:10	1 <sup>st</sup> Period				
	Break (5 mins)				
9:15 – 9:55	2 <sup>nd</sup> Period				
9:55 – 10:00	Eye exercises (5 mins)				
10:00 – 10:30	Recess, Students returning to classroom				
10:30 – 11:10	3 <sup>rd</sup> Period				
	Break (5 mins)				
11:15 – 11:55	4 <sup>th</sup> Period				
	Lunch				
1:40 – 2:00	Students entering school				
2:00 – 2:10	Student queue-up				
2:10 – 2:50	5 <sup>th</sup> Period				
	Stretching exercises (5 mins) & Break (5 mins)				
3:00 – 3:40	6 <sup>th</sup> Period				
	Break (5 mins)				
3:45 – 4:25	Weekly assembly	7 <sup>th</sup> Period	Leisure Activity	7 <sup>th</sup> Period	Leisure Activity

**Not less than  
150 mins  
weekly for  
physical  
exercises**

**Breaks must  
be arranged  
between  
classes**

## ❖ Time for physical exercise:

**Primary to Secondary: Each student does at least 150 minutes of physical exercises per week, except during the term/ final exam week.**

Exercises can be:

- PE lessons ( at least 70 mins per week )
- Gymnastics in the mornings/ between classes
- Any kinds of sports games
- Eye exercises
- Sports as leisure activities

.....





Suggestion	Varieties of physical exercises	Time per week (mins)	Total
	PE lesson	35 – 45 mins X 2 class periods	70 – 90 mins
	Physical exercises between classes (Stretching, eye exercises and/ or other kinds of exercises)	5 mins X 2 times/day X 4 – 6 days	40 – 60 mins
	Leisure activity: physical exercises	40 – 45 mins X 1 class period	40 – 45 mins
<b>Total time for physical exercises per week</b>			<b>150 – 195 mins</b>

Supplementary activity	Varieties of physical exercises	Specification
	Activity after class: Physical Training	Some students participate in them; regular number of hours per week; organized continuously over a period of time.
	Inter-school Sports activities	
	Others	



可在椅子上做的回旋運動。



不妨礙別人的運動小工具，例如計步器、無線跳繩和彈力帶。

The background is a collage of various school activities. It includes students in a classroom, a student playing a guitar, a teacher with a child, students in a workshop, and a group of children in costumes. A large green abstract graphic is on the left side.

For the relevant regulations, please refer to  
***2015/2016 School Operation Guidelines***

Chapter 3 School Management

Article 8 Hygiene and Health



# Leisure activities

## ❖ **Targets:**

- Primary students: Compulsory and meet certain percentage of attendance as regulated

## ❖ **Organizer:**

- Schools
- Collaboration between schools and other associations

## ❖ **Requirements:**

- As diverse as possible;
- Students are free to choose;
- Must be set within the annual curriculum plan defining their objectives, planning and evaluation criteria, and students' attendance has to be recorded clearly;
- Such evaluation can not be used as base to promote/ retain students.



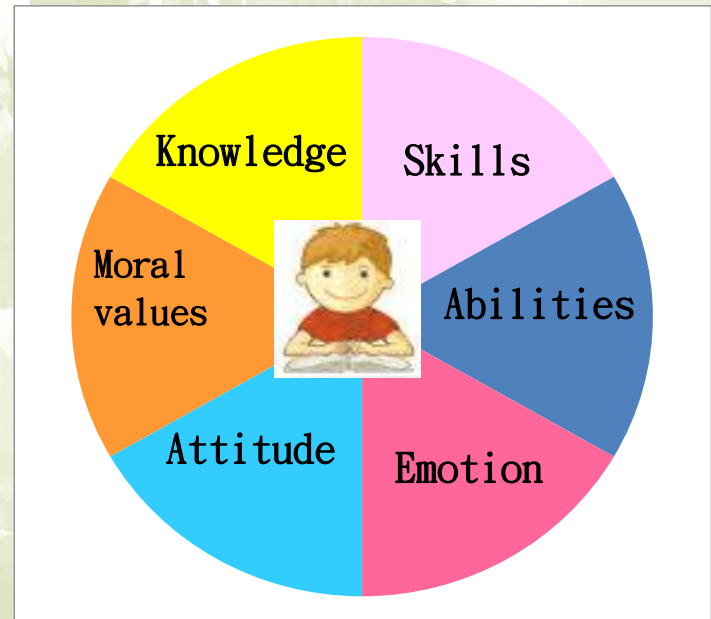


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***2015/2016 School Operation Guidelines***

Chapter 3 School Management

Article 5 Teaching and Learning

# The Requirements of Basic Academic Attainments For Primary Education





# ➤ Further understanding Basic Academic Attainments

“Basic” academic attainments (BAA) refer to the most fundamental, but not the highest as well as the most essential competencies that the students should acquire;

“The Requirements of Basic Academic Attainments ”include the criteria such as “knowledge” and “skill”. It also includes “ability”, “emotion”, “attitude” and “values”, which refer as the students’ overall competences.





# The drafting process of the Requirement of Basic Academic Attainments for Primary Education




Launch the Pilot Program to accumulate experience for further improvement.

Gathering opinions through seminars and teacher trainings.

Written in the collaboration among experts in the relevant curriculum areas and subjects as well as primary teachers in Macao.



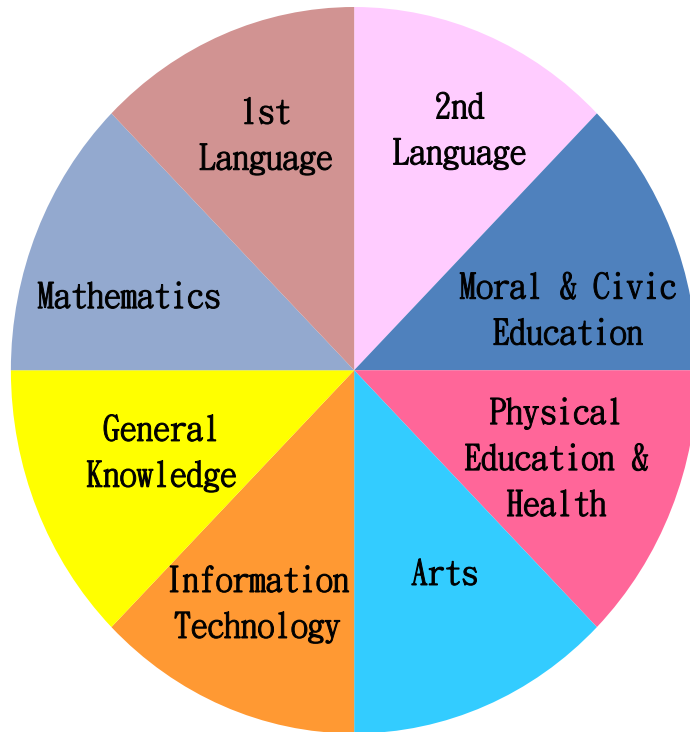
The background is a collage of various educational scenes: students in a classroom, a student playing a guitar, a teacher interacting with students, and children in a play area. A large green abstract graphic is on the left side.

# **Contents of the Requirements of Basic Academic Attainments (BAA)**



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# 1<sup>st</sup> and 2<sup>nd</sup> Languages: Chinese/ Portuguese/ English



## BAA documents of each subject:

1. Rationales
2. Curriculum goals
3. BAA in various domains

### Divided into 2 levels:

- ✓ P1 – P3
- ✓ P4 – P6



# 1<sup>st</sup> Language

Chinese

Portuguese

English

- ✓ Elevating students' ability of applying the language;  
(Listening, speaking, reading, writing)
- ✓ Focusing on the instrumental values and humanism of the language;
- ✓ Enhancing the integration of culture and learn how to respect different cultures.



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## 2<sup>nd</sup> Language

Chinese

Portuguese

English

- ✓ Developing students' ability of applying the language;  
( Listening, speaking, reading, writing )
- ✓ Focusing on the daily life application, practicality and contextualization of the language;
- ✓ Enhancing the understanding of and respect for multi-cultures.





# Mathematics

- ✓ Cultivating students' interests in learning;
- ✓ Focusing on the foundation, the practicality and the daily life application of the subject;
- ✓ Developing mathematical values and logical thinking.





# Moral & Civic Education

- ✓ Cultivating students' patriotism and sense of loving Macao;
- ✓ Developing good character, positive values of self-image and passion for life;
- ✓ Raising the awareness of basic sense of citizenship and social morals, as well as the compassion to care for mother nature.



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# General Knowledge

- ✓ Students cultivating healthy lifestyles and good learning habits;
- ✓ Enhancing students' compassion for people and social environment, inheriting traditions and social cultures;
- ✓ Advocating the harmony between people and mother nature, promoting students' spirits of exploration and creativity.





# Information Technology

- ✓ Mastering basic knowledge and skills in order to solve problems in learning and daily life;
- ✓ Inspiring students' critical thinking, imagination and creativity;
- ✓ Acquiring the ability to apply IT in communication, sharing in a correct way and with positive moral values.





# Physical Education & Health

- ✓ Establishing the developmental perspective of a healthy life, forming the habit of doing exercises;
- ✓ Increasing physical fitness, keeping a good health;
- ✓ Developing the spirits of cooperation and adaptability, as well as good psychological competence.



# Arts

- ✓ Establishing interests and passions for Arts;
- ✓ Stimulating students' creative thinking and imagination, and developing the ability to appraise Arts.
- ✓ Being able to respect and comprehend cultural diversity.





# What needs to be done to implement BAA?

What part of original curriculum has already covered which part of BAA?

Not Covered yet

Adding on

What educational level?

Adding what's missing within the planned curriculum?  
New theme?  
Through other kind of activity?

What actual program/ activity is needed?  
Teaching method?

Included

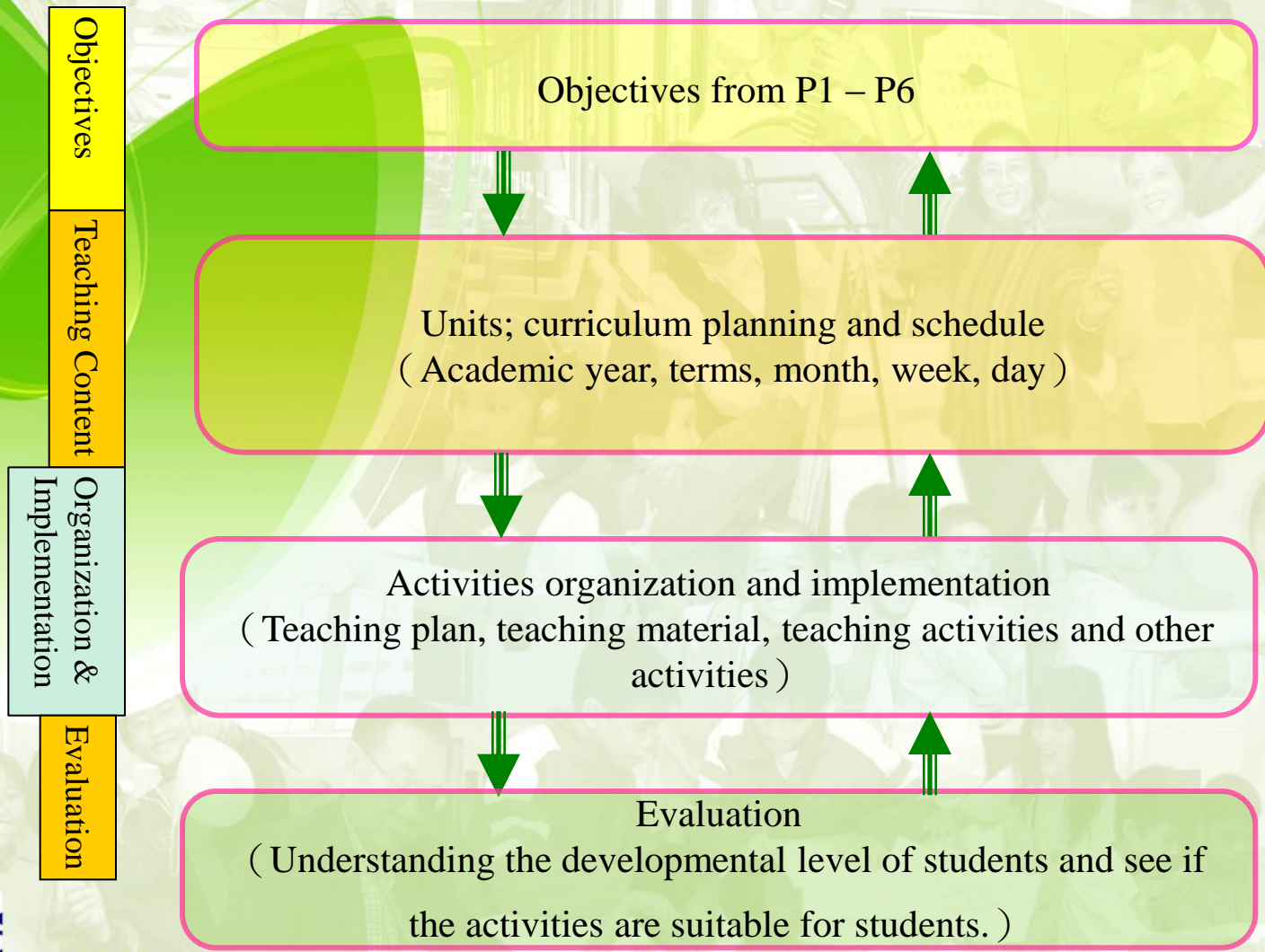
Optimizing  
( Teaching plan, teaching methods )



# Check



# The implementation of BAA



## Evaluation

( Understanding the developmental level of students and see if the activities are suitable for students. )

- ❑ Formative: Focusing on the learning process and performance during the process, taking learning enhancement as goal and carried out continuously in different ways at any time.

Observation

Oral questions

Student profile

Discussion

Self-evaluation

Peer evaluation

- ❑ Summative: Carried out at the end of term/ final exam; done to students based on teachers' observation or other means. Tests and exams are commonly adopted by schools, focusing on measuring students' learning results and performance. It is usually done at the end of a learning process and thus no immediate feedback can be made to improve forthcoming teaching plan.



## □ Implementation of the 《Framework》 and the 《BAA》

Educational level		14/15	15/16	16/17	17/18	18/19	19/20	
<b>Infant</b>	K1-3	Starting from 15/16						
<b>Primary</b>	P1-3	16/17						
	P4-6				17/18			
<b>Junior Secondary</b>	F1				17/18			
	F2						18/19	
	F3						19/20	
<b>Senior Secondary</b>	S1				17/18			
	S2						18/19	
	S3						19/20	



Special focus on bridging and connection between all educational levels: Infant, Primary and Secondary



**Infant**

- Enlightenment
- Avoid fastening the curriculum into primary stage



**Primary**

- Foundation
- Successful learning



**Secondary**

- Development
- Purpose setting and life planning



# Thank you !