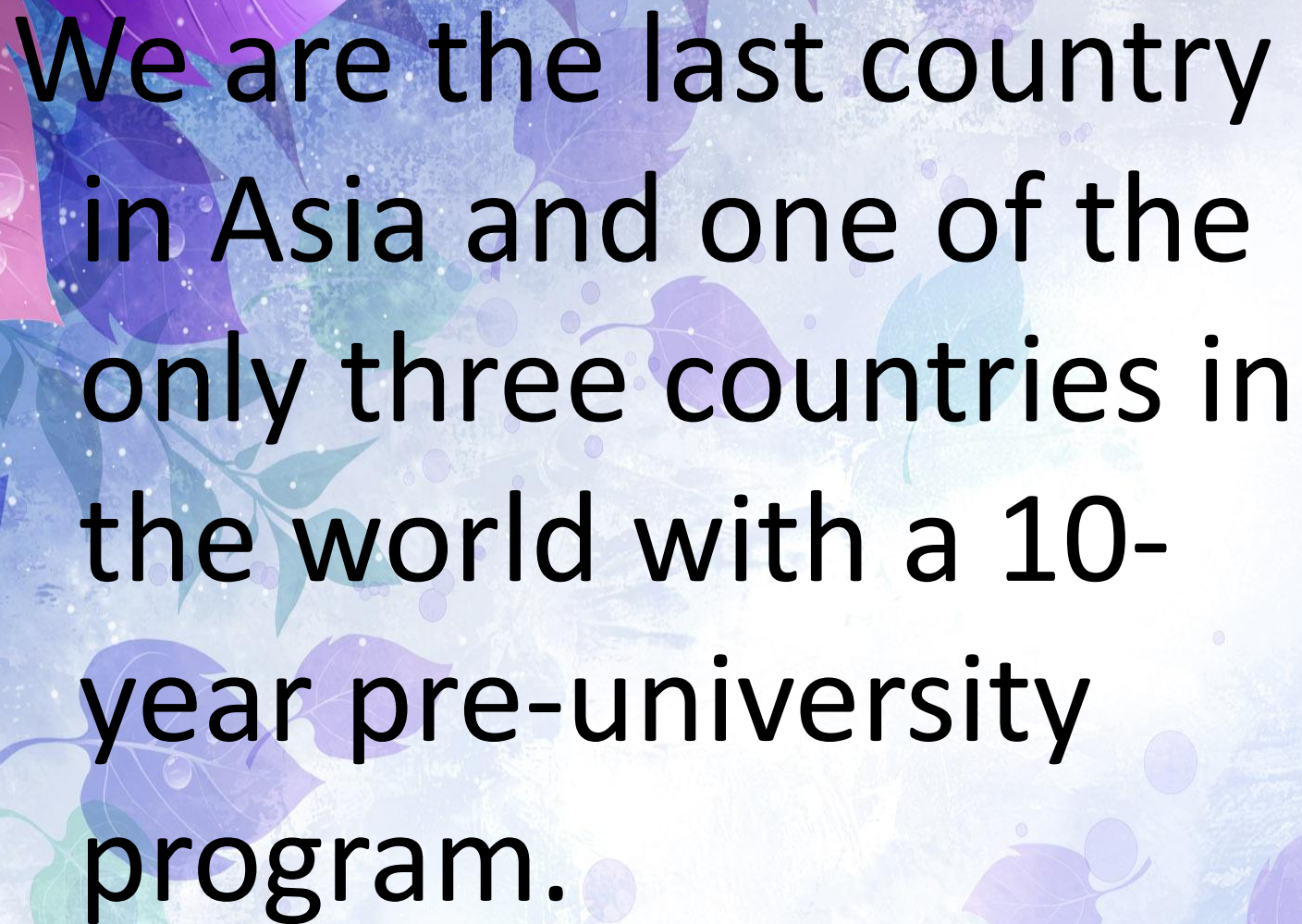# The K to 12 Basic Education Program

Paraluman R. Giron,Ph.D.
Consultant, K to 12 Curriculum Development

World Economic Forum Global Competitiveness Report

Country and Overall Rank	2008	2009	2010	2011
Singapore	5	3	3	2
Malaysia	21	24	26	21
Brunei Darussalam	39	32	28	28
Thailand	34	36	38	39
Indonesia	55	54	44	46
Vietnam	70	75	59	65
Philippines	**71**	**87**	**85**	**75**
Cambodia	109	110	109	9 7

We are the last country in Asia and one of the only three countries in the world with a 10-year pre-university program.

- DJIBOUTI
- ANGOLA
- PHILIPPINES

Washington Accord (1989)

– minimum 12 years pre-university education for recognition of engineering professionals

Bologna Process (1999)

minimum 12 years pre-university education for university admission and practice of profession in European countries

EFA
2015

MDGs
2015

BESRA
2015

K - 12

Basic Education Program

EFA 2015 Goals

Expand and improve comprehensive early childhood care and education, especially for the most vulnerable and disadvantaged children.

K - 12

Basic Education Program

EFA 2015 Goals

Ensure that by 2015 all children, particularly girls, those in difficult circumstances, and those belonging to ethnic minorities,

K - 12

Basic Education Program

EFA 2015 Goals

have access to and complete , free and compulsory primary education of good quality.

K - 12

Basic Education Program

EFA 2015 Goals

Ensure that the learning needs of all young people and adults are met through equitable access to appropriate learning and life-skills programs.

K - 12

Basic Education Program

MDGs 2015

The Millennium Development Goals are a set of eight time-bound, concrete and specific targets aimed at significantly reducing,

K - 12

Basic Education Program

MDGs 2015

if not decisively eradicating poverty, by the year 2015:

K -12

Basic Education Program

MDGs 2015

189 countries including the Philippines committed to attain the EFA Goals and MDGs in September 2000.

Goal 1	Goal 2	Goal 3	Goal 4
Eradicate extreme poverty and hunger	Achieve universal primary education	Promote gender equality and empower women	Reduce child mortality

Goal 5	Goal 6	Goal 7	Goal 8
Improve maternal health	Combat HIV/AIDS, malaria and other diseases	Ensure environmental sustainability	Global partnership for development

K - 12

Basic Education Program

BESRA 2015

Basic Education Sector Reform Agenda

Conceptualized in 2005 to facilitate implementation of Philippine EFA 2015 Plan

K to 12 builds on the reform thrusts of BESRA.

Quality & Accessible Education For All

K to 12 Basic Education Program

Basic Education Sector Reform Agenda

KRT1: School-Based Management	KRT 2: Teacher Education & Development	KRT 3: National Learning Strategies	KRT 4: Quality Assurance & Accountability/ M&E	KRT 5: Organizational Development

BESRA as a package of *reform initiatives* considers **K to 12** as the *__flagship__* reform strategy.

K to 12
Basic Education Program

With K to 12, we will…

Produce holistically developed Filipinos who have 21st century skills and are prepared for higher education, middle-level skills development, employment, and entrepreneurship

"..country with an organized and shared rapid expansion of our economy through a government dedicated in honing and mobilizing our people's skills and energies.."
-Philippine Development Plan 2011-2016

Vision

Filipino graduates are envisioned to:

- **Possess sufficient mastery of basic competencies (e.g. literacy, numeracy, problem solving, etc.) to develop themselves to the fullest;**

- **Be emotionally developed and competent to live a meaningful life;**

- **Be socially aware, pro-active, and involve in public and civic affairs and contribute to the development of a progressive, just and humane society;**

- **Be adequately prepared for the world of work or entrepreneurship or higher education; be legally employable; and**

- **Be globally competent and competitive.**

They are characterized as graduates who:

- **Possess healthy mind and body**
- **Have a solid moral and spiritual grounding**
- **Appreciate and care for humanity, the world and environment**
- **Are proud to be Filipinos**

THE K TO 12 GRADUATE

Comparison of Current BEC and K to 12 Education

Basic Education Curriculum (BEC) 2002

BEC is a restructuring of the NESC (1983) and the NSEC (1989) in order to raise the quality of the Filipino learners and graduates and empower them for lifelong learning.

2010 Secondary Education Curriculum (SEC)

Old

The 2010 Secondary Education Curriculum (SEC) is the revised 2002 BEC incorporating Understanding by Design (UBD) which seeks to contribute to functional literacy for all and the development of 21st Century core skills needed for global competitiveness.

K to 12 Curriculum 2012

New

The K to 12 Basic Education Curriculum is geared towards the development of holistically developed Filipino with 21st century skills who is ready for employment, entrepreneurship, middle level skills development and higher education upon graduation.

CONTEXT →

PHILOSOPHICAL and LEGAL BASES
- The 1987 Phil. Constitution
- B.P. 232, Education Act of 1982
- R.A. 9155, Governance of Basic Education Act of 2001
- The 4 pillars of education (UNESCO)
- The vision- mission statements of DepEd
- The EDCOM Report of 1991
- Basic Education Sector Reform Agenda (BESRA)

NATURE OF THE LEARNER
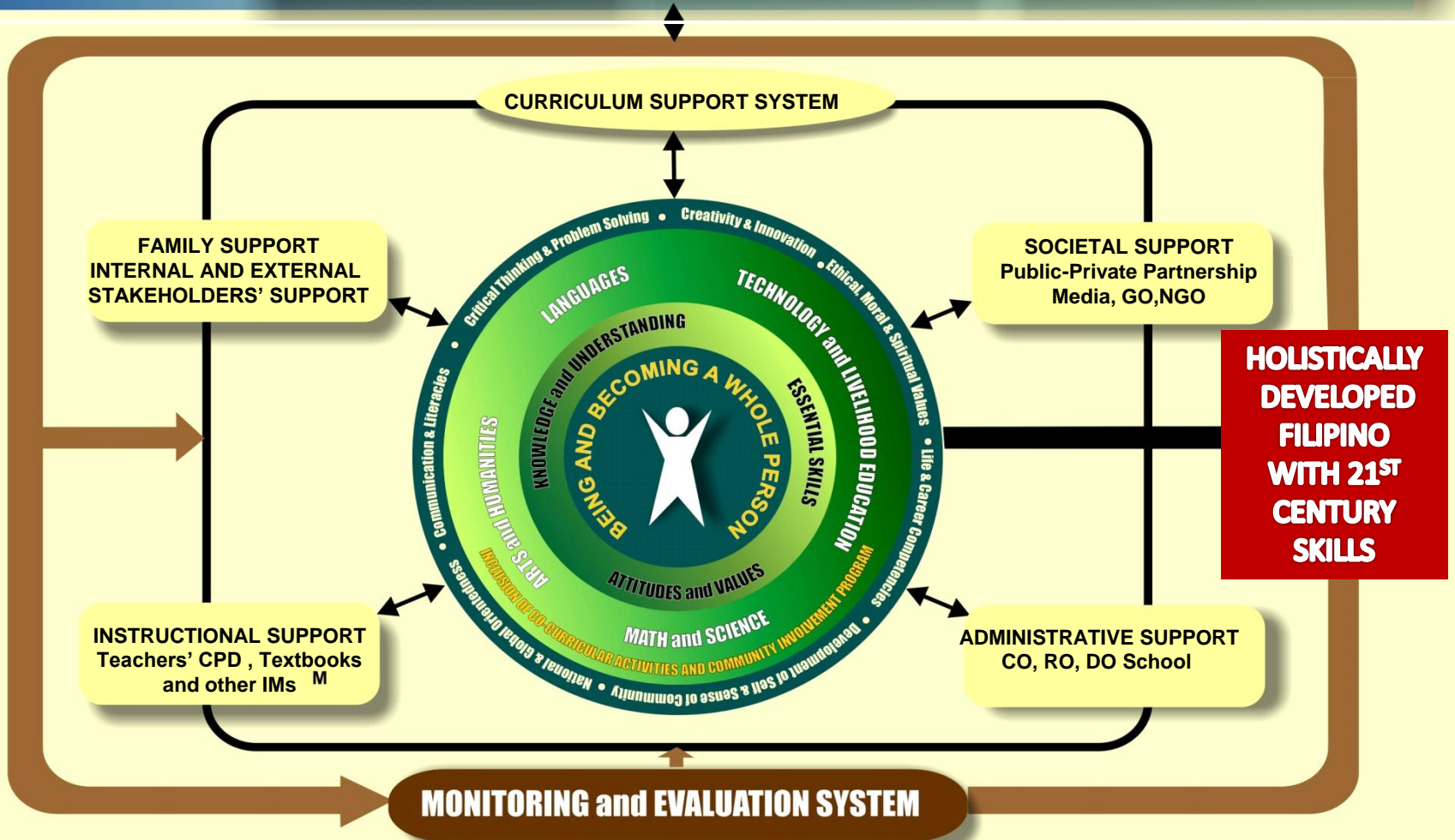- Has a body and spirit, intellect, free will, emotions, multiple intelligences, learning styles
- Constructor of knowledge and active maker of meaning not a passive recipient of information

NEEDS OF THE LEARNER
- Life skills
- Self-actualization
- Preparation for the world of the work, entrepreneurship, higher education

NEEDS OF NATIONAL and GLOBAL COMMUNITY
- Poverty reduction and human development
- Strengthening the moral fiber of the Filipino people
- Development of a strong sense of nationalism
- Development of productive citizens who contribute to the building of a progressive, just and humane society
- Ensuring environmental sustainability
- Global partnership for development

CURRICULUM SUPPORT SYSTEM

FAMILY SUPPORT INTERNAL AND EXTERNAL STAKEHOLDERS' SUPPORT

SOCIETAL SUPPORT Public-Private Partnership Media, GO,NGO

INSTRUCTIONAL SUPPORT Teachers' CPD , Textbooks and other IMs M

ADMINISTRATIVE SUPPORT CO, RO, DO School

HOLISTICALLY DEVELOPED FILIPINO WITH 21ST CENTURY SKILLS

Central diagram labels:
- Critical Thinking & Problem Solving
- Creativity & Innovation
- Ethical, Moral & Spiritual Values
- LANGUAGES
- TECHNOLOGY and LIVELIHOOD EDUCATION
- KNOWLEDGE and UNDERSTANDING
- BEING AND BECOMING A WHOLE PERSON
- ESSENTIAL SKILLS
- Communication & Literacies
- ARTS and HUMANITIES
- Life & Career Competencies
- ATTITUDES and VALUES
- MATH and SCIENCE
- Development of Self & Sense of Community
- National & Global Orientedness
- INCLUSION OF CO-CURRICULAR ACTIVITIES AND COMMUNITY INVOLVEMENT PROGRAM

MONITORING and EVALUATION SYSTEM

The K to 12 Basic Education curriculum will be enhanced

Integrative, Inquiry-based, Constructivist

Focuses on the development of the Filipino
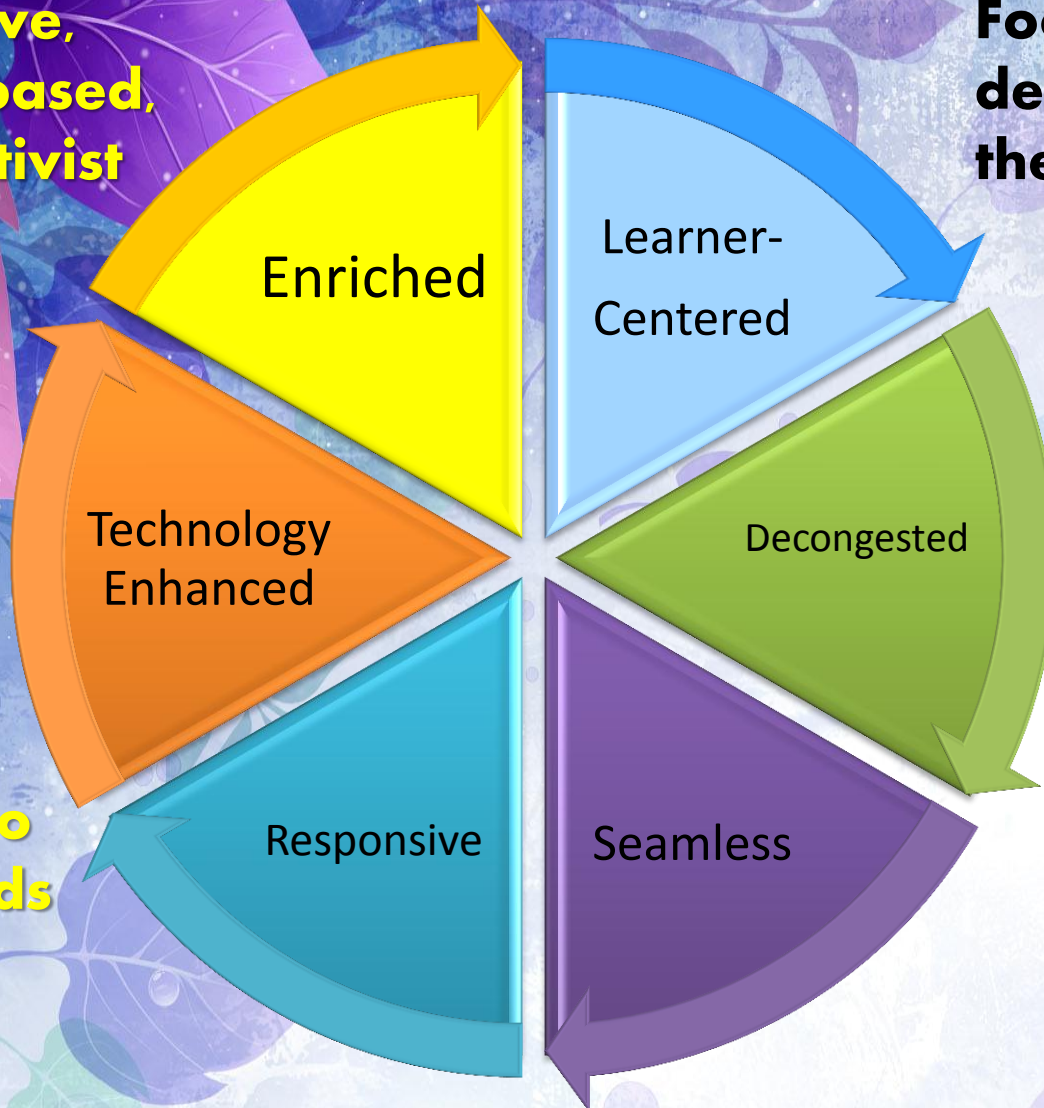
Flexible to local needs

Enriched

Learner-Centered

Technology Enhanced

Decongested

Responsive

Seamless

Allows for mastery of competencies
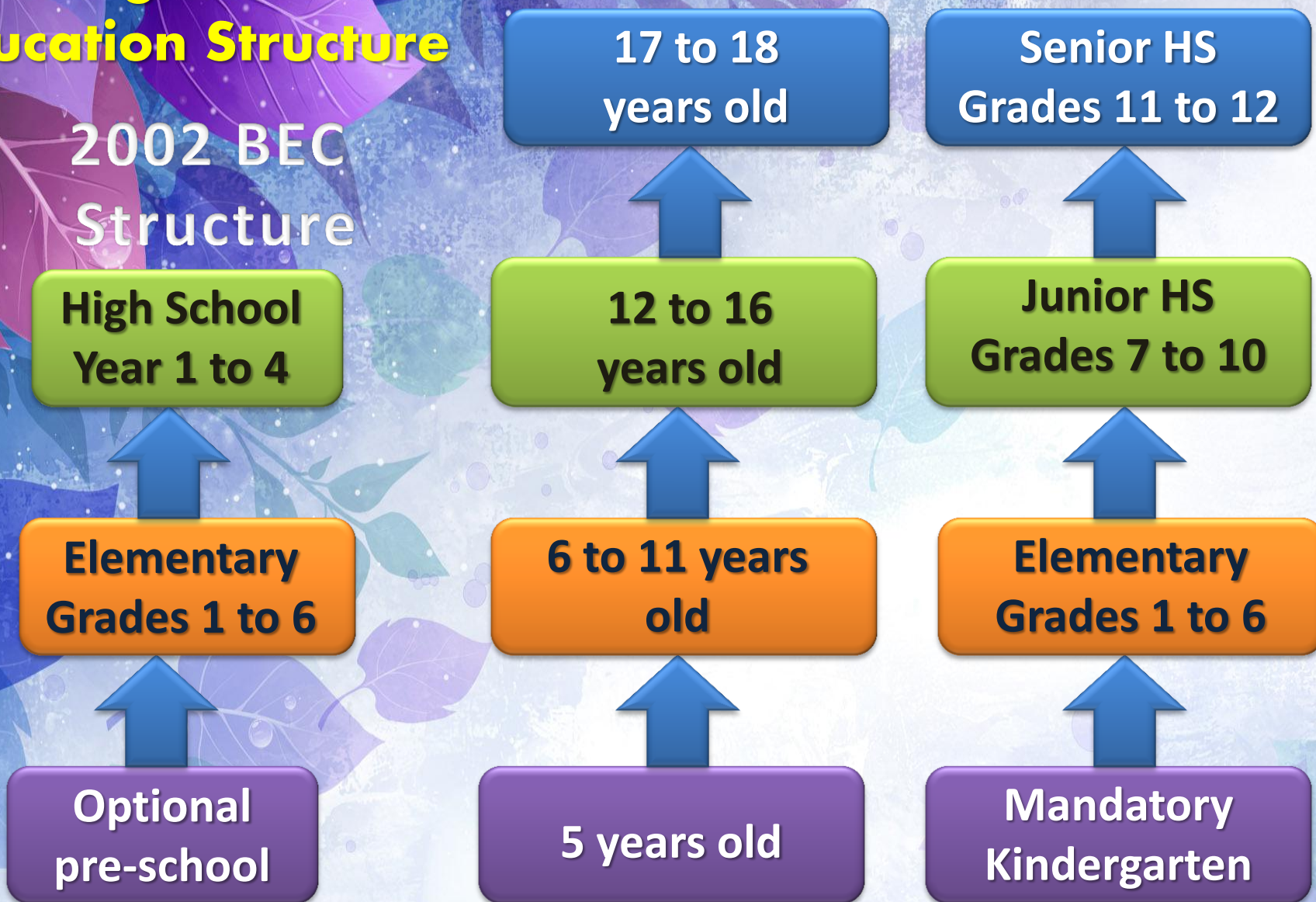
Continuum following an expanding spiral progression model

Significant Changes of the Education Structure

2002 BEC Structure

K TO 12 STRUCTURE

2002 BEC Structure		K TO 12 STRUCTURE
High School Year 1 to 4	17 to 18 years old	Senior HS Grades 11 to 12
	12 to 16 years old	Junior HS Grades 7 to 10
Elementary Grades 1 to 6	6 to 11 years old	Elementary Grades 1 to 6
Optional pre-school	5 years old	Mandatory Kindergarten

Transitional Arrangement from the 2002 BEC/2010 SEC to the K to 12 Curriculum

First cohort of K to 12 Grade 6 and Grade 12 graduates in 2018

Elementary	School Year	Secondary
Grade 6	**2016-2017**	Grade 12
Grade 5	2015-2016	Grade 11
Grade 4	2014-2015	Grade 10
Grade 3	2014-2015	Grade 9
Grade 2	2013-2014	Grade 8
Grade 1	**2012-2013**	Grade 7
Kindergarten	2011-2012	

Start of K to 12 education for Grade 1 and Grade 7
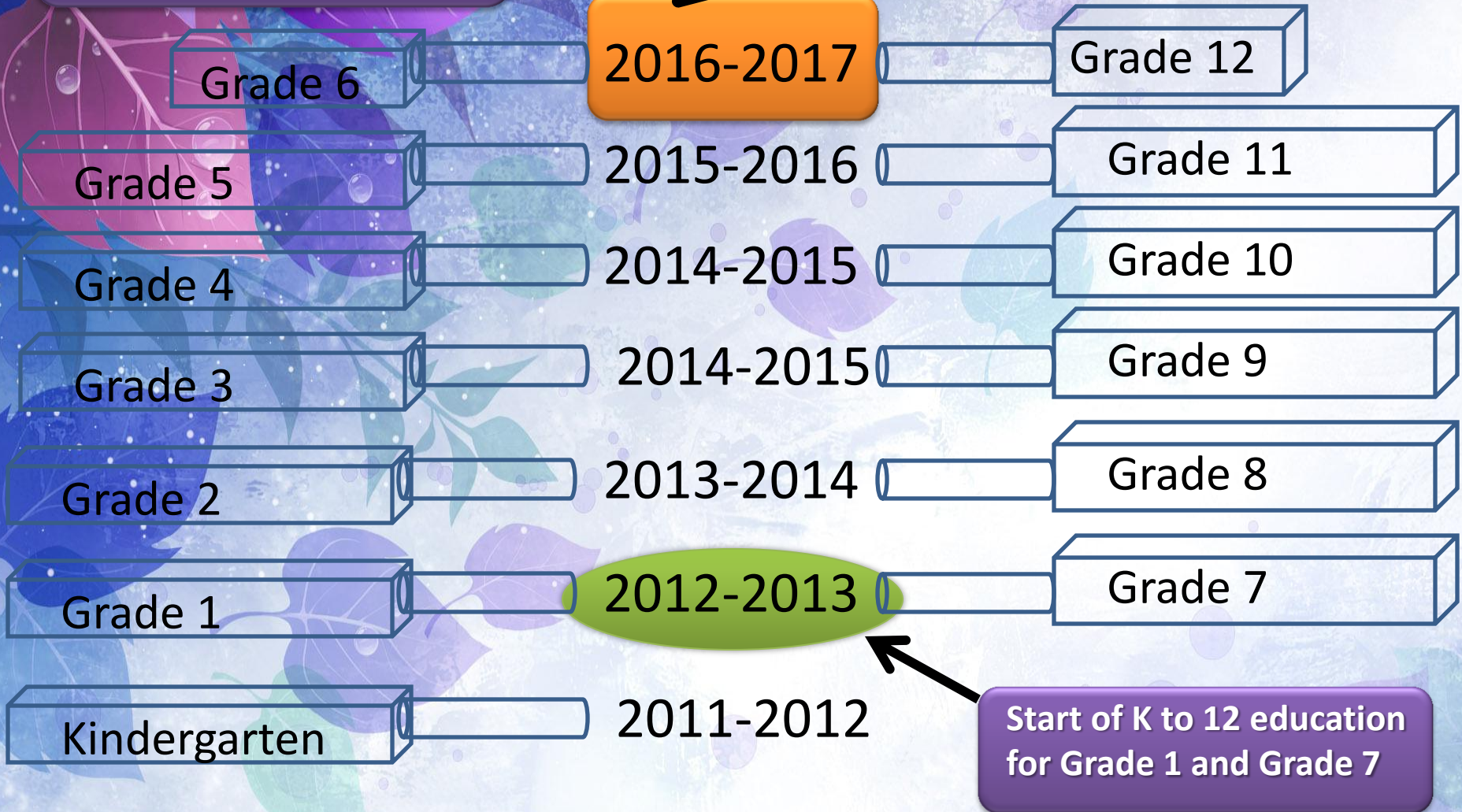
REFORMS IN KINDERGARTEN

Curriculum for Kindergarten Classes
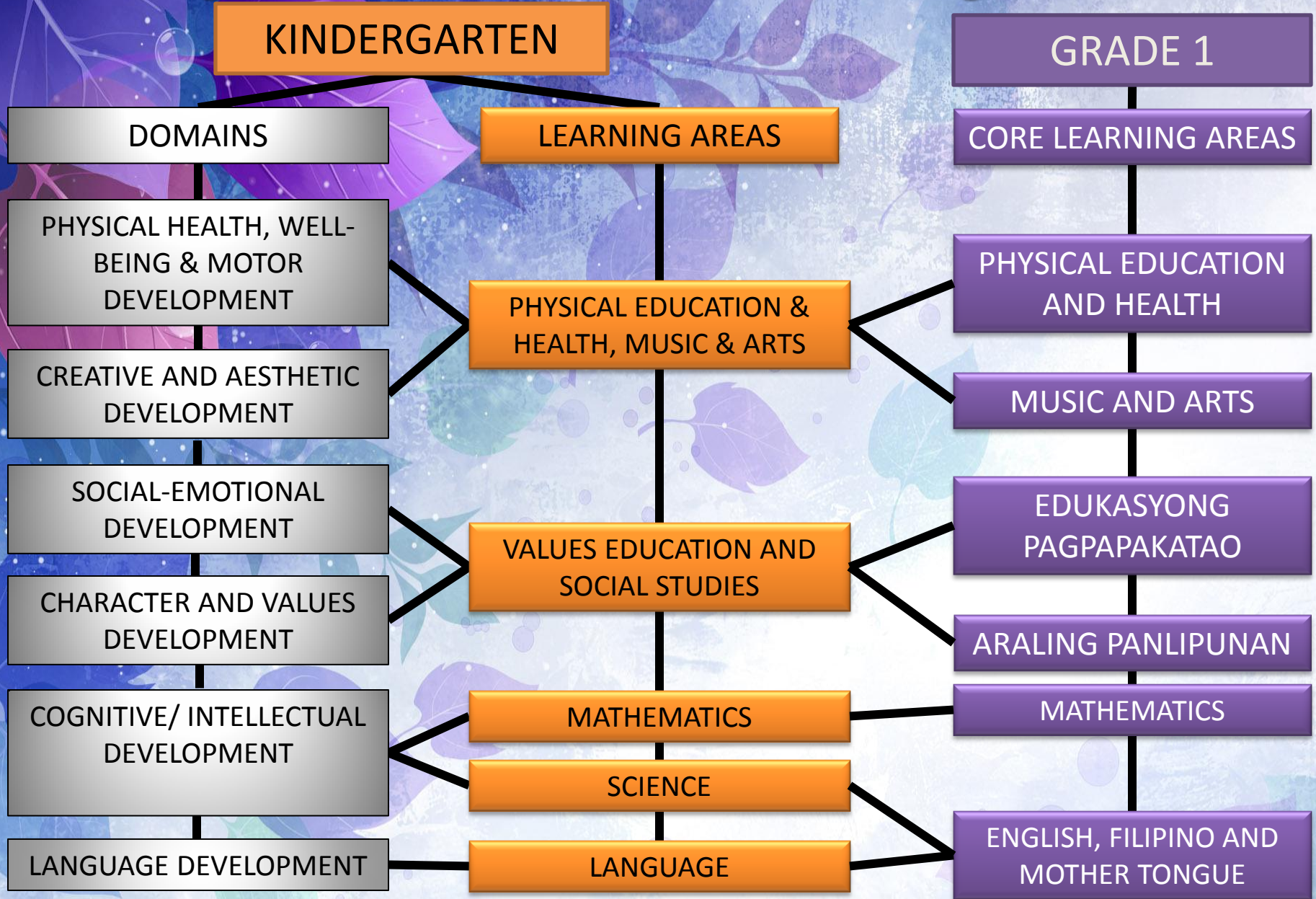
Six Developmental Domains:

1. **Character/values development,**
2. **Physical health and motor development,**
3. **Social and emotional development,**
4. **Cognitive/intellectual development,**
5. **Creative/aesthetic development, and**
6. **Language literacy and communication**

Kindergarten learning areas:

1. **Physical Education & Health, and Music & Arts,**
2. **Values Education and Social Studies,**
3. **Mathematics,**
4. **Science, and**
5. **Language**

Kindergarten to Grade 1 Transition Paradigm

KINDERGARTEN		GRADE 1
DOMAINS	LEARNING AREAS	CORE LEARNING AREAS
PHYSICAL HEALTH, WELL-BEING & MOTOR DEVELOPMENT	PHYSICAL EDUCATION & HEALTH, MUSIC & ARTS	PHYSICAL EDUCATION AND HEALTH
CREATIVE AND AESTHETIC DEVELOPMENT		MUSIC AND ARTS
SOCIAL-EMOTIONAL DEVELOPMENT	VALUES EDUCATION AND SOCIAL STUDIES	EDUKASYONG PAGPAPAKATAO
CHARACTER AND VALUES DEVELOPMENT		ARALING PANLIPUNAN
COGNITIVE/ INTELLECTUAL DEVELOPMENT	MATHEMATICS	MATHEMATICS
	SCIENCE	
LANGUAGE DEVELOPMENT	LANGUAGE	ENGLISH, FILIPINO AND MOTHER TONGUE

Medium of Instruction

The kindergarten under K to 3 is adopting mother tongue-based multilingual education (MTB MLE). The mother tongue of the learners is the primary medium of instruction for teaching and learning.

Key Changes in the Elementary Curriculum

1. **Medium of instruction**

2. **Learning areas**

3. **Assessment**

Comparison of the 2002 BEC and the K to 12

2002 BEC		K TO 12
Bilingual (English and Filipino)	**Medium of Instruction**	Mother Tongue-Based Multilingual Education
National Achievement Test for Grade 6	**Assessment**	**End-of-Grade 6 Assessment, as exit exam and as readiness test for Junior High School**

Mother Tongue as Medium of Instruction

Learning Area	Medium of Instruction per Grade Level					
	G1	G2	G3	G4	G5	G6
Language Arts						
Filipino	Filipino					
English	English					
Mother Tongue	Mother Tongue					
Science			Mother Tongue	English		
Mathematics	Mother Tongue			English		
Araling Panlipunan	Mother Tongue			Filipino		
Edukasyong Pantahanan at Pangkabuhayan (EPP)				Filipino		English
MAPEH	Mother Tongue			Filipino		
Edukasyon sa Pagpapakatao	Mother Tongue			Filipino		

Comparison of the Learning Areas and Time Allotment of the 2002 BEC and the K to 12 Curriculum- Elementary Education
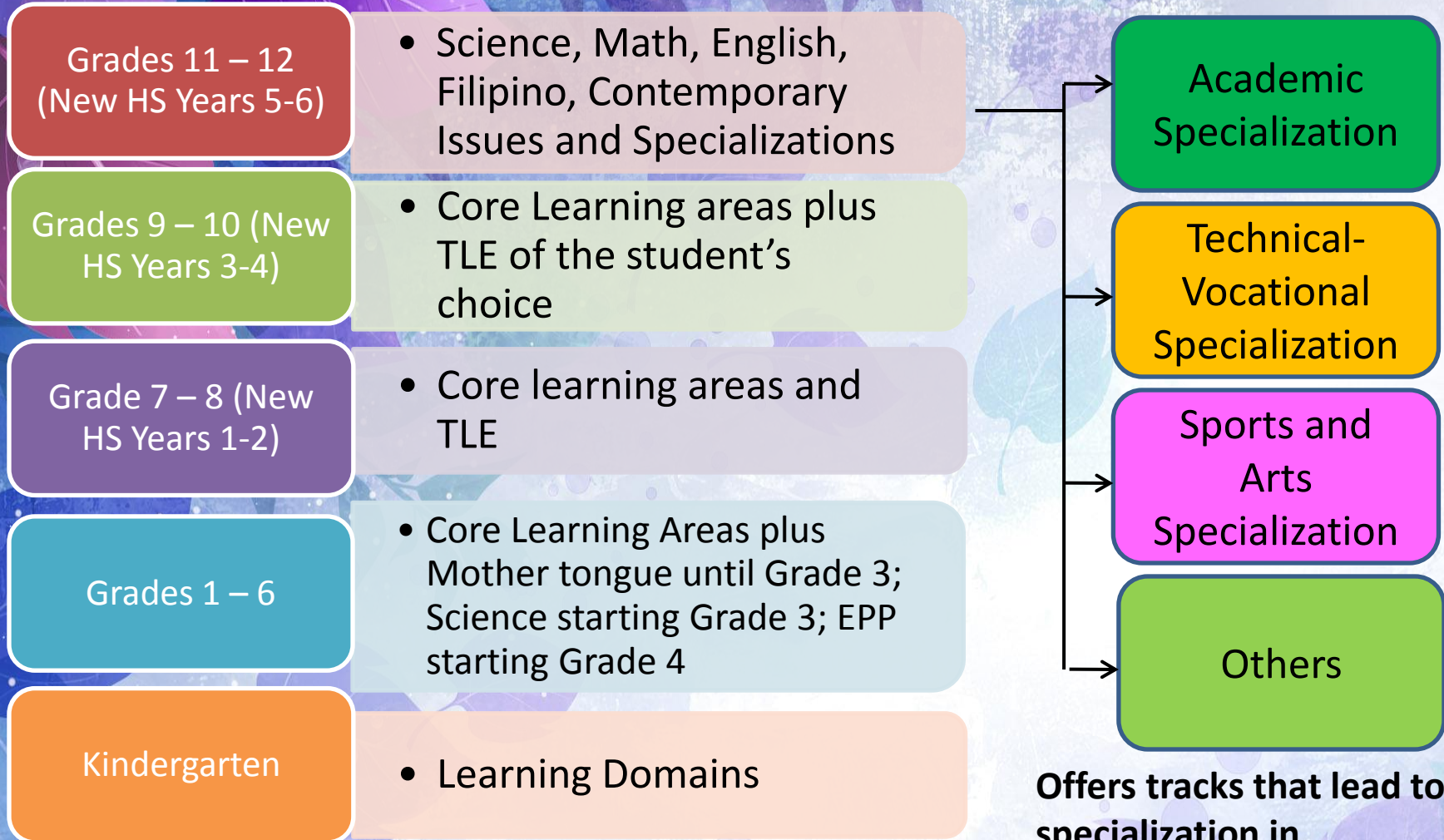
Learning Areas	2002 BEC Curriculum (minutes per day)		K to 12 Education (minutes per day)	
1. English		60-90		30-50
2. Filipino		60-70	L A N G U A G E S	30-50
3. Mother Tongue (Grades 1-3)		none		50
4. Mathematics		60-70		50
5. Science (Grades 3 to 6)		40-60		50
6. Araling Panlipunan		40+60		40
7. Edukasyon sa Pagpapakatao	M A K A B A Y A N	20-30		30
8. Music, Arts, PE and Health (MAPEH)		40		40
9. Edukasyong Pantahanan at Pangkabuhayan/TLE (Grades 4 to 6)		40		40

Comparison of the Learning Areas and Time Allotment of the 2002 BEC and the K to 12 Curriculum- Secondary Education

Learning Areas	2002 BEC Curriculum (hours per week)		K to 12 Education (hours per week)
1. English		5	4
2. Filipino		4	4
4. Mathematics		5	4
5. Science		6	4
6. Araling Panlipunan	M A K A B A Y A N	4	3
7. Edukasyon sa Pagpapakatao		2-3	2
8. Music, Arts, PE and Health (MAPEH)		4	4
9. Edukasyong Pantahanan at Pangkabuhayan/TLE (Grades 4 to 6)		4	4

K to 12 Curriculum Model

Grades 11 – 12 (New HS Years 5-6)	• Science, Math, English, Filipino, Contemporary Issues and Specializations	**Academic Specialization**
Grades 9 – 10 (New HS Years 3-4)	• Core Learning areas plus TLE of the student's choice	**Technical-Vocational Specialization**
Grade 7 – 8 (New HS Years 1-2)	• Core learning areas and TLE	**Sports and Arts Specialization**
Grades 1 – 6	• Core Learning Areas plus Mother tongue until Grade 3; Science starting Grade 3; EPP starting Grade 4	**Others**
Kindergarten	• Learning Domains	

Offers tracks that lead to specialization in Academics, Tech-Voc and Sports & Arts

Career Pathways from Grades 7 to 12

Grade levels	Academics	ELECTIVES				Certification
		Academic		TLE Offering	Entrepreneur ship	
12 11	Core Competencies + Career Pathways Specialization	Advanced Science Advanced Mathematics Languages Journalism Arts and Sports Others	HOME ECONOMICS	1. Nail Care NC II 2. Caregiving NC II 3. Tailoring NC II 4. Dressmaking NC II 5. Commercial Cooking NC II 6. Bread and Pastry Production NC II 7. Household Services NC II		National Certification II Horizontal/ Vertical Transfer
10 9	Core Competencies + TLE Specialization		Agri Fishery	8. Agriculture Crop Production NC I 9. Horticulture NC II 10. Animal Production NC II 11. Aquaculture 12. Food "Fish" Processing NC II		National Certification II National Certification Certificate of Competencies
8 7	Exploratory Tech-Voc Electives focused on 5 common competencies: •Mensuration and Calculation •Use of tools and Equipment •Interpretation of Plans/Drawing •Occupational Health and Safety •Maintenance of Tools and Equipment		Industrial Arts	13. Automotive Servicing NC I 14. Carpentry NC II 15. Plumbing NC II 16. Masonry NC I 17. Tiles Setting NC II 18. Mechanical Drafting NC I 19. Electrical Installation and Maintenance NC II 20. Consumer Electronics Servicing NC II 21. Handcrafts Production/ Novelty and Crafts NC I 22. Shielded Metal Arc Welding NC I 23. Refrigeration & Aircon Servicing (DOMRAC) NC II 24. Computer Hardware Servicng NC II		

MODELS FOR CAREER PATHWAYS

Technical-Vocational Curriculum of San Pedro Relocation Center National High School

Technical-Vocational Education Curriculum

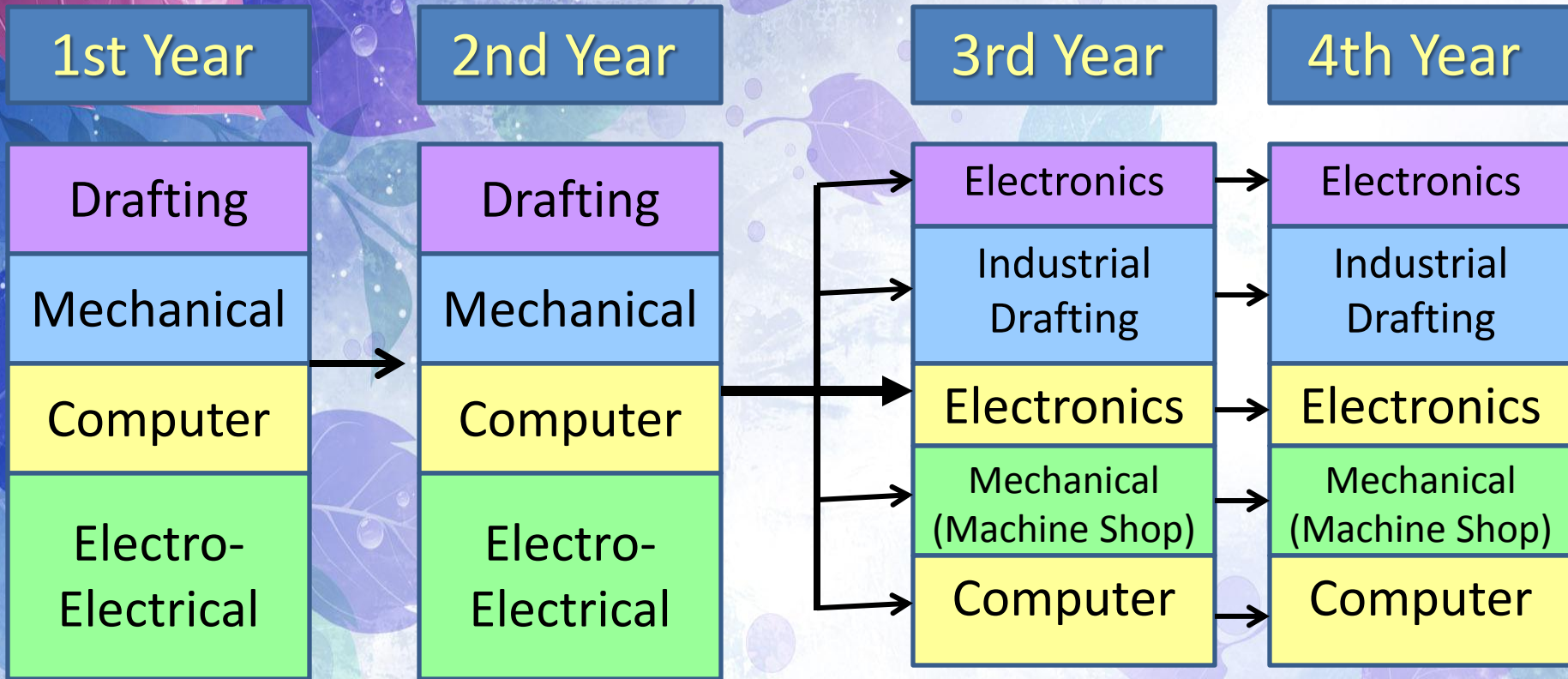| First Year	Second Year	Third Year	Fourth Year
Technical Drawing	Technical Drawing	Internet Computing Fundamental	Entrepreneurship
Internet Computing Fundamental	Internet Computing Fundamental	Entrepreneurship	TVE Specialization Subjects
TVE Exploratory Subjects	TVE Specialization Subjects	TVE Specialization Subjects	

Technical High School Program of Don Bosco Technical College

Technical High School Program

1st Year	2nd Year	3rd Year	4th Year
Drafting	Drafting	Electronics	Electronics
Mechanical	Mechanical	Industrial Drafting	Industrial Drafting
Computer	Computer	Electronics	Electronics
Electro-Electrical	Electro-Electrical	Mechanical (Machine Shop)	Mechanical (Machine Shop)
		Computer	Computer

Subjects and their Corresponding Units at Manila Science HS

SUMMARY OF UNITS	1st Yr		2nd Yr		3rd Yr		4th Yr		Total	
	Units	No. of Subjects	Units	No. of Subjects	Units	No. of Subjects	Units	No. of Subjects	Units	No. of Subjects
CORE SUBJECTS	12.3	11	13.8	12	14.7	13	13.5	11	54.3	47
Science	2.4	2	2.4	2	3.3	3	3.0	2	11.1	9
Mathematics	2.4	2	3.0	2	3.0	2	3.0	2	11.4	8
English	1.5	1	1.5	1	2.4	2	1.5	1	6.9	5
Filipino	1.2	1	1.2	1	1.2	1	1.2	1	4.8	4
Social Studies	1.2	1	1.2	1	1.2	1	1.2	1	4.8	4

Subjects and their Corresponding Units at Manila Science HS

SUMMARY OF UNITS	1st Yr		2nd Yr		3rd Yr		4th Yr		Total	
	Units	No. of Subjects	Units	No. of Subjects	Units	No. of Subjects	Units	No. of Subjects	Units	No. of Subjects
MAPEH/CAT	1.2	1	1.2	1	1.2	1	1.2	1	4.8	4
TLE	1.2	1	1.2	1	1.2	1	1.2	1	4.8	4
Values Education	0.6	1	0.6	1	0.0	0	0.0	0	1.2	2
Research	0.0	0	0.9	1	0.6	1	0.6	1	2.1	3
Computer Science	0.6	1	0.6	1	0.6	1	0.6	1	2.4	4
ELECTIVES	0.9	1	0.9	1	0.9	1	1.8	2	4.5	5
Total	13.2	12	14.7	13	15.6	14	15.3	13	58.8	52

Key Changes in Secondary Education

- Structure

- Curriculum

- Assessment

K to 12 Secondary Education Structure

Junior High School

Grades 7 & 8 Core learning areas & TLE Exploratory Course

Grades 9 & 10 Core learning areas plus TLE of the learner's choice

END OF GRADE 10 ASSESSMENT

Senior High School

Grades 11& 12 Science, Mathematics, Languages, Logic Contemporary Issues and Career Pathways Specialization

END OF GRADE 12 ASSESSMENT

Comparison of the 2010 SEC and the K to 12

SEC 2010

K TO 12

Curriculum

Understanding by Design (UbD) framework follows three stages: results or desired outcomes, assessment, and learning plan

Spiral progression of curriculum that starts from simple to complex and requires revisiting prior knowledge

Assessment

National Achievement Test for Second Year students
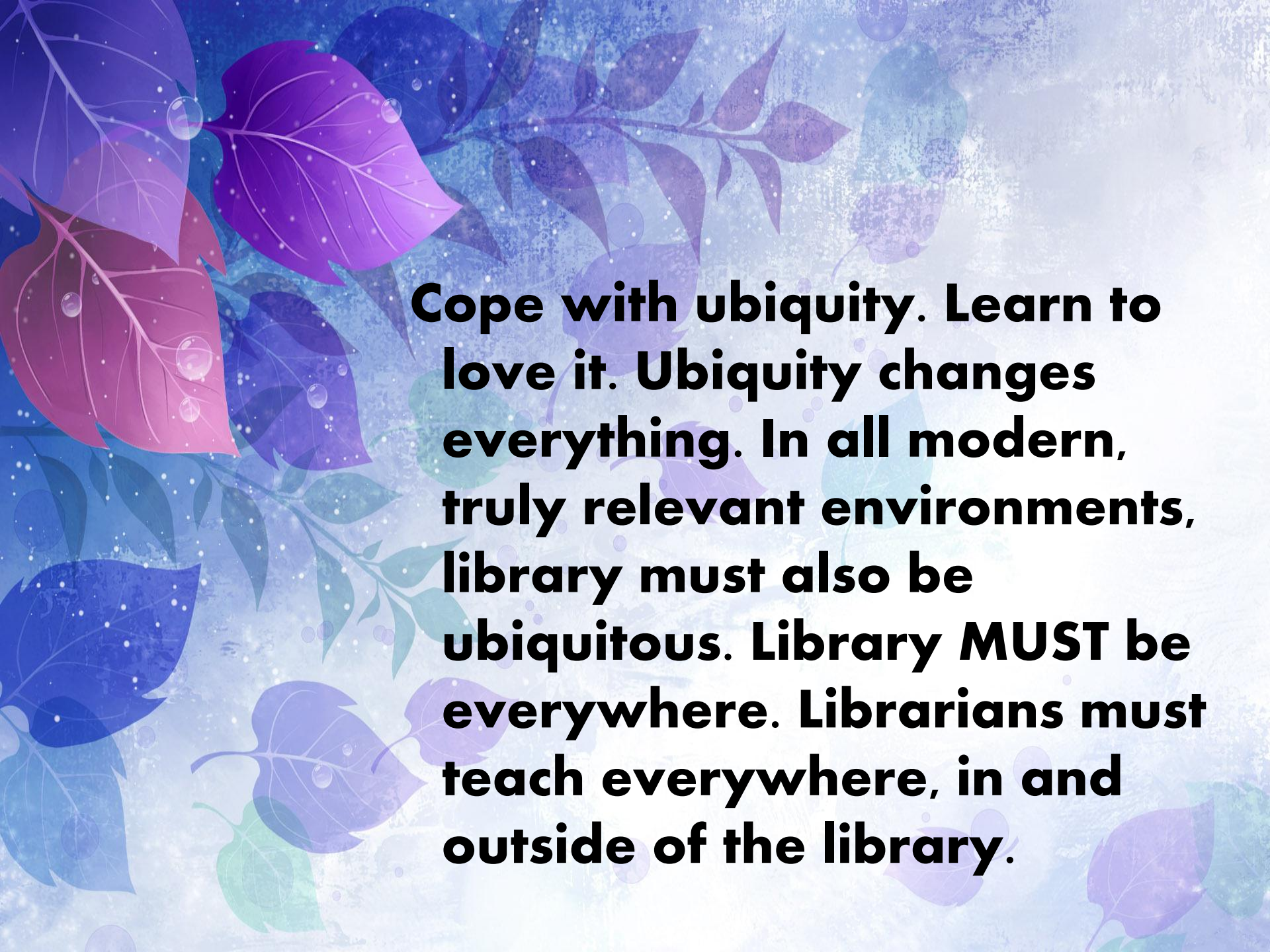
End-of-Grade 10 exam and End-of-Grade 12 Exam

Implications
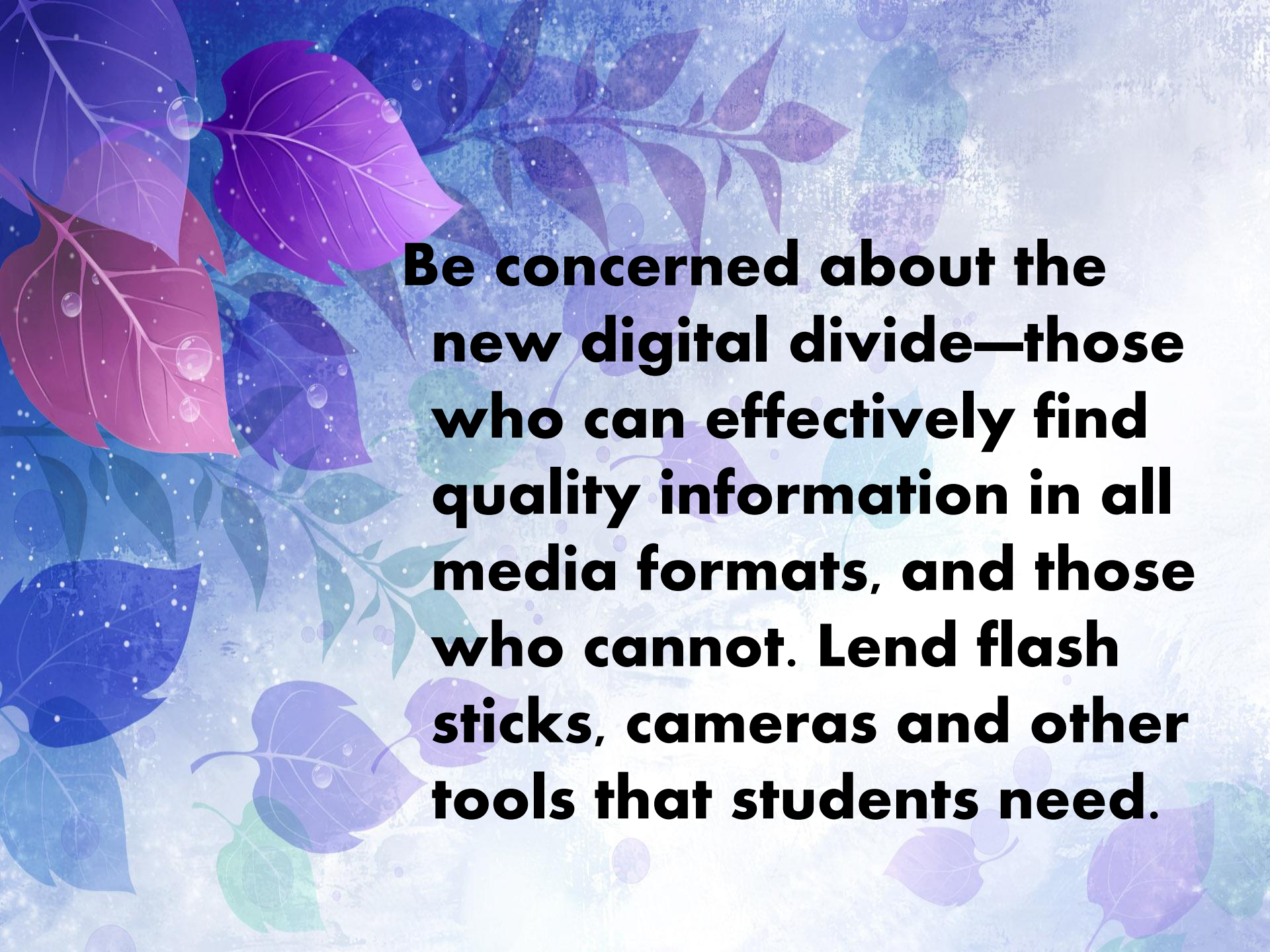
Librarians are expected to be the information expert in the school. Searching various areas of the Web requires a variety of search tools (Google, Yahoo ...). Help the learners navigate the information landscape.
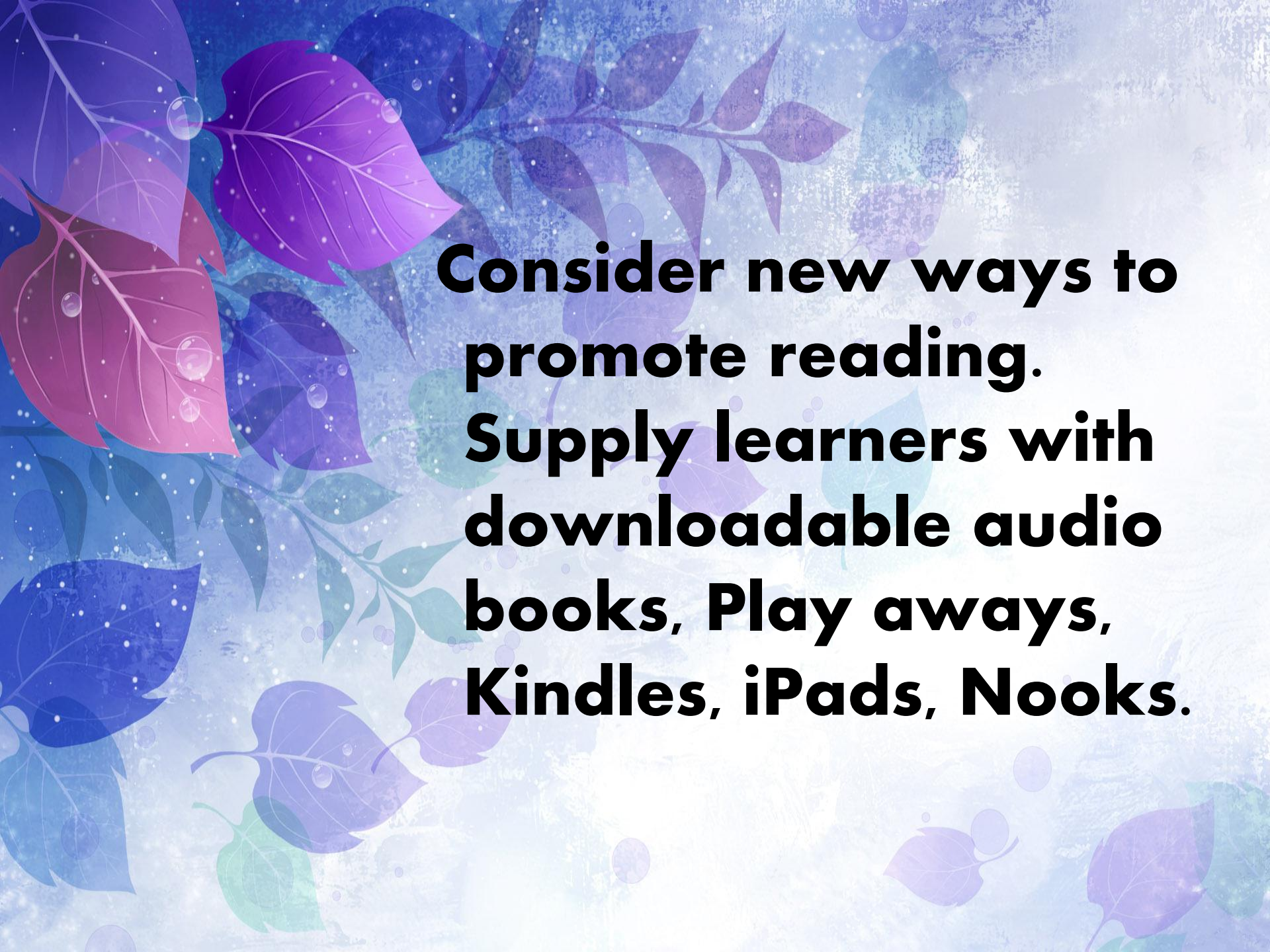
Make learning in your "libratory" an engaging and colorful experience. Your physical space is about books and way more than books. Welcome and create space for media production- podcasting, video production, story-telling producing and presenting.

Cope with ubiquity. Learn to love it. Ubiquity changes everything. In all modern, truly relevant environments, library must also be ubiquitous. Library MUST be everywhere. Librarians must teach everywhere, in and outside of the library.

Be concerned about the new digital divide—those who can effectively find quality information in all media formats, and those who cannot. Lend flash sticks, cameras and other tools that students need.

Consider new ways to promote reading. Supply learners with downloadable audio books, Play aways, Kindles, iPads, Nooks.

Communication is the end-product of research. Teach learners how to communicate and participate creatively and engagingly.

Seek your professional development that will help you grow even if it is not offered by your school. Even if you don't get PD credit. Guide your colleagues in setting up their own professional learning networks.

Make sure your learners and co-teachers can access developmentally and curricularly databases, portals, websites, blogs, videos and other media.

A Friendly Invitation...

Help our K to 12 Basic Education Program

succeed...

For the Filipino children and youth,

For our country,

For God.

Mabuhay at Maraming Salamat!