



In the past years, gifted education in the country is limited to selected special programs in science and mathematics, the Headstart Program, and a gifted program under Special Education in selected public schools. The Philippine Science High School System under the Department of Science and Technology (DOST) was established for gifted high school students in science and Mathematics. The government also established the Philippine High School for the Arts, which is under the National Commission of Culture, and Arts (NCCA) to develop gifted students in the field of music and arts. Gifted education is offered mostly by elite private schools in selected cities across the country. There are also limited professional organizations and advocates for gifted education in the Philippines.

Van Tassel-Baska (2004) observed, that in the global context, curriculum for the gifted has been a major issue over the past 25 years as attested to by proliferation of books and articles on the subject. Gifted education is still a growing field in developing countries like the Philippines. Undoubtedly, gifted education is quite expensive to implement; however, providing gifted education for the gifted and potentially gifted Filipino students is their right. The 1987 Constitution of the Republic of the Philippines states that every Filipino has the right to have access to quality education and training relevant to their needs.

This paper aims to help the DepEd develop a curriculum for the gifted and potentially gifted Filipino students. Specifically, it aims to identify existing programs and discuss some issues and challenges in gifted education in the country. It will also present a curriculum development model and curriculum framework that could be used to guide the development of curriculum for the gifted in Philippine schools. Currently, the Department of Education is completing the development of a curriculum for Filipino gifted students to be implemented in all public schools in the country. Thus, this study is useful and timely.

### *1.2. Conceptions of Giftedness*

The concept of giftedness varies among different scholars. It also varies from different cultures. Davis, Rimm, and Siegle (2011) noted that there is no single definition of the word gifted that is universally accepted. Some scholars refer to it as having special talents and abilities while others think of it as a state of high intellect or genius.

Tannenbaum (2003) proposed a definition of giftedness in children to denote their potential for becoming critically acclaimed performers or exemplary producers of ideas in spheres of activity that enhance the moral, physical, emotional, social, intellectual or aesthetic life of humanity. For Gagne (1985), giftedness refers to domains of human abilities, talents, to domains of human accomplishments. Giftedness also involves

excellence, rarity, productivity, demonstrability, and value attached to the skills/products of the individual (Sternberg & Zhang, 1995).

Howard Gardner (1983) presented his theory of Multiple Intelligences and identified nine intelligences that are present in every individual person: linguistic, logico-mathematical, spatial, musical, bodily-kinesthetic, interpersonal, intrapersonal, naturalist, and existential intelligence. Many schools today considered this intelligence as areas of giftedness. Those who subscribe to this belief advocate that schools have a special role to play in the development and nurture of these gifts.

Reading the literature from a myriad of publications and studies conducted by experts on giftedness gives an insight that the concept of giftedness is always associated to the attributes of great intellectual and talented people having great accomplishments, developing great ideas and producing great works, inventions or performances. In some cases, giftedness is also associated with people having outstanding leadership abilities.

### *1.3. Characteristics of Gifted Students*

The concept of giftedness is interdependent to the characteristics and attributes of gifted individuals. The definitions of giftedness provide a general conclusion that gifted individuals are people from various ages who give evidence of high intellectual ability, special artistic talents, and creativity in different areas. As to their intellectual ability, Davis, Rimm, and Siegle (2011) observed that gifted individuals are developmentally advanced in language and thought; thinking process are quick and logical, early advanced mathematical, musical, and artistic abilities; and high motivation with persistence. Upon examining several studies, Davis et.al (2011) also observed that gifted individuals are well adjusted in childhood, and reported to have had greater personal adjustments, emotional stability, self-esteem, professional success, and personal contentment.

Pufal-Struzik (1999) noted that gifted students are better adjusted than regular students and have better self-concepts and greater overall self-actualization. They possess a high level of independence, self-confidence, and internal control, sense of humor, and high moral thinking and empathy (Davis, Rimm, and Siegle, 2011). Renzuli and Reis (1997) also noted that gifted students have an instructional style preference, learning environment preference, thinking styles preference, and expression style preference. Watters and Diezmann (2003) observed that gifted students in lower primary level are likely to be faster, more intensely involved, and more abstract in their approach and solutions to problems.

Calvin Taylor (1988) observed that majority of gifted students possess special skills and talents: academic, productive thinking, communicating, forecasting, decision-

making, planning, implementing, human relations, and discerning opportunities. In the Philippines, Pawilen (2014), identified general attributes of Filipino gifted individuals and classified them into three: (1) high intellectual ability, (2) exceptional talents, and (3) outstanding leadership skills. Many intellectually gifted individuals also possess exceptional talents either in music or in arts. Talents are contributory to creativity and problem solving and that is essential for getting ideas into action (Davis, Rimm, and Siegle, 2011).

Some scholars like Cox, Daniel, and Boston (1985) preferred to use the term able learners than using the term gifted. Renzulli (1994) shared the same sentiment and prefers to use the phrase “gifted behaviors” which can be developed in certain students at certain times and in certain circumstances. Davis, Rimm, and Siegle (2011) explained that this argument is based on the premise that the title of “gifted” should not be bestowed on individuals as a result of the identification process. It is for this reason that many preferred to use the phrase “potentially gifted.”

Taber (2007) encourages educators in gifted education to study carefully the characteristics, nature, and needs of gifted students. This is important in the development of a curriculum for the gifted. The nature of gifted students demands a curriculum characterized by a vast array of challenging activities that engage their cognitive skills. The learning environment, created by the curriculum, also plays a central role in the degree to which high-ability learners can become independent, innovative, imaginative thinkers (Amabile, 1996, Hennessy, 2004).

#### *1.4. Curriculum Models for Gifted Education*

There are several foreign curriculum models that can provide insights into what type of curriculum is needed and how to develop a curriculum appropriate for gifted individuals. Understanding these curriculum models will help the researcher in developing the proposed curriculum development model and curriculum framework for gifted education, which is the focus of this study.

##### **A. School-wide Enrichment Model**

The Schoolwide Enrichment Model (SEM) (Renzulli & Reis, 2009, 1997) is widely implemented as an enrichment program used with academically gifted and talented students and a magnet theme/enrichment approach for all schools interested in high-end learning and developing the strengths and talents of all students (Davis, Rimm, and Siegle, 2011). The major goal of the SEM is the application of gifted education pedagogy to the total improvement of the school.

The SEM provides enriched learning experiences and higher learning standards for all children through three goals; developing talents in all children,

providing a broad range of advanced-level enrichment experiences for all students, and providing advanced follow-up opportunities for young people based on their strengths and interests. The SEM focuses on enrichment for all students through high levels of engagement and the use of enjoyable and challenging learning experiences that are constructed around students' interests, learning styles, and preferred modes of expression.

### **B. Parallel Curriculum Model**

The Parallel Curriculum Model evolved from a National Association for Gifted Children curriculum in 1998. A group of scholars (Tomlinson, Kaplan, Renzulli, Purcell, Leppien, & Burns) collaboratively developed this model. It is based on the premise that every learner is somewhere on a path toward expertise in a content area. It promotes a curriculum model for developing the abilities of all students and extending the abilities of students who perform at advanced levels. The Parallel Curriculum Model (PCM) offers four curriculum parallels that incorporate the element of ascending intellectual demand to help teachers determine current student performance levels and develop intellectual challenges to move learners along a continuum toward expertise. (Tomlinson, Kaplan, et.al, 2002).

The four curriculum parallels in this model are: (1) Core curriculum – focuses on the nature of knowledge that is embedded in the discipline. These are core concepts, skills and values that are unique for each discipline; (2) Curriculum of Connection – focuses on the integration or interconnectedness of knowledge across different disciplines; (3) Curriculum of Practice – involves application of knowledge to different real-life situations: and the methodology of a practitioner; and (4) Curriculum of Identity – fits the learner's values and goals and those that characterize practicing professionals.

The beauty of this model lies in its framework of helping the learners to experience the nature of the different disciplines rather than just accumulating information. It is designed to engage the learners with the core of knowledge development in each discipline.

### **C. Autonomous Learner Model**

Betts (2004) pointed out that curricular offerings typically fall into three levels. Level 1 is a prescribed curriculum and instruction that focuses on state standards. Level 2 involves differentiation of curriculum base on individual differences. Level 3 features learner-differentiated options where students are self-directed and

teachers provide opportunities for the learners to be in charge of their learning. This model focuses on the third level.

The Autonomous Learner Model is divided into five major dimensions:

1. *Orientation* – acquaints students, teachers, students, and administrators with the central concept in gifted education and the specifics of this model. At this level, gifted students work together in doing some self-understanding exercises that will help them familiarize each other. The students are expected to develop an Advanced Learning Plan as part of their orientation experience that includes information about their giftedness, various personal and academic needs, learning experiences they might need, and other things that will help them succeed in school.
2. *Individual development* – focuses more clearly on developing skills, concepts, and attitudes that promote lifelong learning and self-directed learning.
3. *Enrichment Activities* – two kinds of differentiation of curriculum are involved here: (1) differentiation of curriculum by the teacher, and (2) differentiation by the student. Students are exposed to various activities to develop their passion for learning.
4. *Seminars* – it is designed to give each person in a small group the opportunity to research a topic and present in seminar format to other people or to the rest of the group.
5. *In-Depth Study* – students pursue areas of interest in long-term individual or small-group studies. The students will decide what will be learned, the process of doing it, the product, how it will be presented, and how the entire learning process will be evaluated.

#### **D. Integrated Curriculum Model**

This model is a popular way of organizing or designing different kinds of curriculum. The Center for Gifted Education at the College of William and Mary developed its curriculum based on this model and has trained many teachers around the world in using their curriculum materials (Davis et.al. 2011). The model presented three dimensions based on the model of VanTassel Baska (1987) that guide in the development of the curriculum:

1. *Advanced Content Dimension* – meeting the needs of gifted students for acceleration by providing content earlier and faster than same-age

peers would normally receive it. Content area experts and educators work collaboratively to develop the content, and they align key topics, concepts, and habits of mind within a domain to content area standards.

2. *Process/Product Dimension* – incorporates direct instruction and embedded activities that promote higher-order thinking skills and create opportunities for independent pursuit in areas of student interest.
3. *Issues/Themes Dimension* – learning experiences are organized around various issues and themes. In doing so, students are able to develop deeper ideas and philosophies that ultimately promote understanding of the structure of knowledge learned.

### **E. Kids Academia Model**

Kids Academia is a program for young Japanese children aged 5-8 developed by Dr. Manabu Sumida in 2010. The program is designed to provide excellent science experiences for gifted children in Japan. The kids who participated in the program were highly selected using a checklist adapted from the Gifted Behavior Checklist in Science for Primary Children. Faustino, Hiwatig, and Sumida (2011) identified three major phases followed in the development of the curriculum for Kids Academia:

1. *Group Meeting and Brainstorming Activities* – The teachers and teaching assistants held several meetings and brainstorming activities to decide on the themes that will be included in the program. A general orientation of the program is also done during this phase.
2. *Selection of Contents for each Theme* – The teachers and teaching assistants carefully select the lessons and topics that are included in the theme. A rigorous study of the topic is done in this phase.
3. *Designing Lessons* – The third phase includes careful preparation of lesson plans and other instructional materials needed for implementing each lesson.

In addition, the program adapted the *Wheel of Scientific Investigation and Reasoning* as a guide for developing skills of gifted children. This model was adopted from the Scientific Wheel Model of the Center for Gifted Education of the College of William and Mary, to develop scientific habits of mind for independent research investigations.

### *1.5. Gifted Education Curriculum Models in the Philippines*

There are several government programs implemented by the Department of Education and few private schools for the gifted in the Philippines.

#### **A. Philippine High School for the Arts Model**

The Philippine High School for the Arts (PHSA) was established on June 11, 1977, as a government-run secondary school for artistically gifted and talented children and adolescents. It implements a special secondary education program committed to the conservation and promotion of the Filipino artistic and cultural traditions.

Aside from academic and artistic training, the PHSA provides its students with opportunities for cultural appreciation that will contribute to their development as artists for others. The experience of living away from home and integrating with peers in this special residential high school cultivates in the young artists an attitude of independence tempered by the spirit of cooperation as they create art together.

PHSA implements a general secondary program that is integrated with a special curriculum in the arts. It aims to develop cultural leaders in the preservation of the environment and dynamic evolution of the Philippine Arts and Culture (P.D. 1287, 1978). It is committed to the conservation and promotion of the Filipino artistic and cultural traditions and makes every effort to develop the potentials of its young arts scholars as future cultural leaders with a nationalistic orientation.

PHSA consults with the Cultural Center of the Philippines (CCP) for policy and program implementation pertaining to the arts. The institution offers five courses of specialization in the arts: Theater Arts, Creative Writing, Visual Arts, Dance, and Music. Highly trained teachers and artists are hired to handle these subjects. The school also offers elective courses that students can choose to complement the major courses of study in the arts. Electives are offered to the students on a semester basis.

#### **B. Philippine Science High School System**

Another government program for gifted students in the Philippines is the Philippine Science High School System. It is a service institute of the Department of Science and Technology (DOST) whose mandate is to offer on a free scholarship basis for a secondary course with special emphasis on subjects pertaining to the Sciences with the end view of preparing its students for a Science career. This is according to Section 2 of Republic Act 3661 that established the first Philippine Science High School campus in 1964.



The curriculum of the school is designed to develop students who are gifted in the field of Science, Technology, Engineering, and Mathematics (STEM). Advanced courses in STEM fields are offered as the core of the curriculum and highly specialized courses in STEM areas are offered as electives.

Since its inception, the PSHSS continues to pursue its vision to develop Filipino science scholars with a scientific mind and a passion for excellence. Under the competent faculty and administrators, PSHS students have proven to be a beacon of excellence, courage, and hope for the country. Numerous scholars have brought honor to the Philippines through their exemplary achievements in various international competitions and research circles. Upon graduation, the students are expected to pursue degrees in Science and Technology at various colleges and universities both here and abroad.

### **C. Central Visayan Institute Foundation**

The Central Visayan Institute Foundation (CVIF) is the home and pioneer of one of the prominent school-based innovation in science and mathematics education in the country known as the Dynamic Learning Program (DLP). The DLP is a synthesis of classical and modern pedagogical theories adapted to foster the highest level of learning, creativity, and productivity. Essential features of the program include (1) Parallel Learning Groups (Modified Jigsaw Strategy); (2) Activity-based Multi-domain Learning; (3) In-school Comprehensive Student Portfolio; and (4) Strategic Study and Rest Periods and Integrated Spiritual and Cultural Formation.

The school takes pride in its Research Center for Theoretical Physics (RCTP) that was established in 1992. The Center also organizes small international Workshops to foster the informal but intense exchange of ideas and perspectives on outstanding problems in physics and mathematics. The workshops feature pedagogical, review, and research-level lectures focusing on new concepts, methods, and techniques used to investigate current problems in quantum physics, biophysics, complex systems, and various nonlinear phenomena, among others.

### **D. The Learning Tree Child Growth Center**

The school started as a preschool program in 1994. The school now offers an excellent program for elementary grades. Many of their graduates study high school at Philippine Science High School, Philippine High School for the Arts and big private secondary schools in Metro Manila. The school is famous for nurturing and developing the gifted potentials of young children in different subjects in a Christian atmosphere.

Noleal (2012) conducted a study on the curriculum offered in this school and reported positive results. The school is known for its Experiential-Integrative Approach to education. Activities are integrated into different subject matter areas so that the child learns to make real and meaningful connections between them. Noleal also observed the warmth and support of teachers who help the children develop their potentials. According to his study, the strength of the curriculum lies with the presence of excellent teachers and learner-centered environment.

### **E. Headway School of Giftedness**

This school uses different forms of instruction and curricular approaches to develop and nurture the giftedness of their students. It provides a learning environment that is conducive for learning. The school also uses a differentiated and flexible program that responds to the unique learning abilities of their students. The school employs an interdisciplinary team approach composed of specialists in General Education, Early Childhood Education, Special Education, Counselling, Psychology, Developmental Paediatrics and mentors in areas of special interests.

### **F. BERE Arts and Sciences High School**

This school was established in 2005 as an attempt to integrate the philosophy of combining arts and sciences as the core curriculum to develop gifted students. It develops students' abilities in Math, Sciences, and Languages, at the same time, their abilities in the arts - visuals arts and music. The curriculum of the school followed the Department of Education prescribed curriculum but as soon as a BASHS student turns sophomore, he has a choice of what major to take.

There are two kinds of majors: Arts Major and Science Major. Arts majors are divided into Music major (Piano, voice, guitar, violin), Creative Writing major, and visual arts major. Music majors study music theory and classical repertoire and instruments. They have recitals and performances in different places to showcase their musical talents. Creative writing majors study literature, story and character analysis, and grammar. Visual arts majors study art techniques and a variety of traditional media. Science majors on the other hand study advance math and science subjects. The curriculum of the school also incorporated a Bible-study component at all levels, to strengthen the student's spiritual essence.

The Philippines is trying its best to provide gifted education programs for gifted students. In fact, in October 1999, then President Joseph Ejersito Estrada signed

Presidential Proclamation No. 199 declaring every fourth week of November as the national week for the gifted and talented. Accordingly, one of the aims of the Philippine government in terms of education is to provide every gifted and talented Filipino with opportunities, encouragement, greater attention, and assistance to fully develop his or her potentials. Watters and Diezmann (2003) cited *economic prosperity* and *equity* as the main reasons for governments to support the gifted. This is to recognize the future well being of the nation and society as an outcome of fostering productivity and creativity.

### *1.7. Purpose of the Study*

The main purpose of this study is to present a curriculum framework and to create a curriculum development model for developing a curriculum for the gifted in Philippine public schools. The study also aims to identify existing programs for gifted education in Philippine public schools and the issues and challenges encountered by schools and teachers in implementing these existing gifted education programs.

### *1.8. The Significance of the Study*

The study is useful for readers and scholars to have an idea of the current situation of gifted education in the Philippines. The curriculum framework and the curriculum development model are useful in the development of a gifted curriculum and can be adapted by teachers and education supervisors in developing similar curriculum for their schools and country. The proposed curriculum development model and curriculum framework for gifted education could be used to guide the curriculum developers of the Department of Education, as they develop the K-12 curriculum for the gifted. This study is also a contribution to the limited literature on gifted education in the Philippines.



















