



# Millennial Access Platform – (Inspired Idea) MAP\$ to Radically Different Learning Environments

## 2013-2014 Millennium Access Platform (MAP)

**MAP name:** New School Choice Options/Magnet Schools/Programs/Models

**Strategic Pillar:** Education

**Description:** Forty-two (42) new choice/magnet program offerings will be created in thirty-eight (38) schools with strands that include: Cambridge, Science, Mathematics, Legal Studies, Information Technology, and the Arts. Of particular note is the establishment of twenty-three (23) new Cambridge schools.

Cambridge programs offer rigorous, internationally-benchmarked curricula at all levels, K – 12, through Cambridge International Examinations, part of the University of Cambridge. In an expanding partnership, Miami-Dade County Public Schools will roll out 80 new programs in 70 schools over the next three years. With a focus on high-level studies in mathematics, science and language, these programs will challenge students as they move through the world-renowned Cambridge continuum, leading to the Advanced International Certificate of Education (AICE) Diploma in high school.

The new Cambridge schools and programs for 2013-2014 are as follows:

Cambridge Roll-out	School	Cambridge Program Level
1	Dr. Rolando Espinosa K-8	Check Point/Primary
2	Miami Springs Middle	Check Point
3	Springview Elementary	Primary
4	Miami Edison Edu-Plex	AICE Diploma
5	Horace Mann Middle	Check Point
6	Shadowlawn Elementary	Primary
7	Lawton Chiles Middle	Check Point
8	Palm Spring North Elementary	Primary
9	Miami Lakes Middle	Check Point
10	Ernest R. Graham K-8	Check Point/Primary
11	North Twin Lakes Elementary	Primary
12	Hialeah Gardens Middle	Check Point
13	Hialeah Gardens Elementary	Primary
14	John F. Kennedy Middle	Check Point
15	Miami-Norland Senior	AICE Diploma
16	Andover Middle School	Check Point
17	Norland Elementary	Primary
18	Palmetto Middle	Check Point
19	Vineland K-8	Primary
20	Richmond Heights Middle	Check Point
21	Goulds Elementary	Primary
22	Dr. Edward Whigham Elementary	Primary
23	Ethel Beckham Elementary	Primary



# Millennial Access Platform – (Inspired Idea) MAPS to Radically Different Learning Environments

The new Magnet schools and programs for 2013-2014 are as follows:

School	Magnet Academy Theme(s)
Airbase K-8 Center	<p><b>International Education</b></p> <p>The highly successful Air Base Elementary School will expand its reach to include grades 6 – 8, extending the quality focus of an international learning experience through the middle years. Grounded in strong core curriculum offerings, Air Base K – 8 will offer students a global learning experience that includes the study of a second language, technology, and the arts, with the opportunity for acceleration in mathematics and science. Exploring topics with an international focus, students will become more culturally sensitive as they move through the K – 8 continuum and will be prepared for rigorous academic programs in high school. The K-8 conversion is dependent upon the identification of funding for facility expansion.</p>
Henry S. West Laboratory	<p><b>International Studies - German</b></p> <p>A German International Studies (IS) program will be initiated at Henry S. West Laboratory School beginning with one first grade class for the 2013-2014 school year and subsequently adding a grade per year. The IS program is driven by foreign language acquisition. It is designed with a rigorous academic curriculum that incorporates multi-cultural learning. The program blends two to three hours of daily of (German) language instruction, and often includes math or history in the foreign language in the upper grades. The German IS program is supported by the German government, by way of a Memorandum of Understanding with Miami-Dade County Public Schools (M-DCPS).</p>
Richmond Heights 6-12	<p><b>Biotech @ Zoo Miami</b></p> <p>The restructuring of Richmond Heights Middle into a 6-12 configuration was included into the Magnet Schools Assistance Program (MSAP) grant application for the 2013 submission. Therefore, the planning for this change began during the 2012-2013 school year and the implementation is pending award of the MSAP grant.</p> <p><b>Biotech @ Zoo Miami</b> will build upon the success of the Zoo Magnet Program at Richmond Heights Middle school to create a STEM magnet high school (grades 9 – 12) with a focus on conservation biology. Students will focus on issues related to resource conservation and ecosystem management in an interdisciplinary learning environment. Through experiential and project-based learning activities in the field, students will work at Zoo Miami’s 290 acre science classroom with more than 1200 exotic animals, and at Fairchild Tropical Gardens, with its state-of the art research labs. Students will research and evaluate global issues and concerns related to the human impact on biological diversity (genetic, species, and ecosystem) with the aim of protecting species, their habitats, and ecosystems from excessive rates of extinction.</p>
Zelda Glazer 6-12	<p><b>Studio Arts</b></p> <p>The restructuring of Zelda Glazer Middle into a 6-12 configuration for dance and</p>



# Millennial Access Platform – (Inspired Idea)

## MAPs to Radically Different Learning Environments

	<p>theatre magnet strands will begin during the 2013-2014 school year. Beginning with 9<sup>th</sup> grade next year, the Miami Arts Studio magnet will provide students with a world-class dance and theatre arts education and a rigorous academic curriculum that will prepare them for careers in dance and theatre as well as post-secondary education. The Arts Studio is designed to provide students with a highly specialized and sequential program of studies that help to develop students' own artistic vision through dance and theatre.</p>
American Senior	<p><b>Academy of Biomedical Careers (ABC)</b>          The Academy of Biomedical Careers (ABC) aims to introduce students to a variety of health care professions. Students receive comprehensive instruction to prepare them for entry-level healthcare careers or college. ABC contains a curriculum that spans ninth through twelfth grades and includes opportunities for internships that will enhance students' skills. American Senior High partners with various local post-secondary learning facilities to provide additional learning/skill building opportunities. The program is aligned with academic, employment, and workplace standards. The ABC has earned the coveted distinction of being a model program from the National Career Academy Coalition (NCAC).</p>
Medical Academy for Science and Technology (MAST) @Homestead	<p><b>iMed</b>          The iMed Medical Academy will offer a sequence of courses that will provide coherent and rigorous content, aligned with challenging academic standards to prepare potential pre-med students for advanced post-secondary coursework. The iMed Medical Academy will prepare students for pre-med by offering a solid grounding in anatomy and physiology, biology, chemistry and physics, along with opportunities to shadow and work alongside medical professionals at local medical schools as well as hospitals which may include Homestead Baptist Hospital and Larkin Community Hospital. These opportunities will offer iMed magnet students the unique opportunity to explore medical careers and medical education.</p> <p>The planning for this academy began during the 2012-2013 school year and the implementation is pending award of an i3 grant.</p>
Miami-Killian Senior	<p><b>International Law</b>          The International Law Academy will offer a comprehensive curriculum for students interested in law. Students will gain an understanding of legal systems and explore a range of career-related opportunities. Students in the program will work closely with professionals, participating in shadowing and mentoring programs. Field trips to law firms, courthouses, and other governmental agencies will be integral to the experiences obtained by students in the program. This magnet is in partnership with Florida International University (FIU) School of Law ensuring that students receive exposure and opportunities for advancement at the college level.</p>
Miami-Norland Senior	<p><b>Sports Medicine</b>          The Sports Medicine Academy will provide an innovative and rigorous science</p>



# Millennial Access Platform – (Inspired Idea) MAPS to Radically Different Learning Environments

	<p>curriculum, which will prepare students for post-secondary and college opportunities in Sports Medicine and related career opportunities. The Sports Medicine Academy at Miami-Norland Senior High School will have a strong partnership with the Miami Dolphins organization, and the planning phase has already produced active involvement on various levels, including facility and programmatic design. Students will participate in a challenging curriculum that will expose them to critical thinking, field studies, projects, internships, and academic acceleration; such as, Advanced Placement and Dual Enrollment.</p>
Edison 9-14 Center	<p><b>iTech Academy</b></p> <p>The restructuring of Edison Middle into a 9-14 configuration was included into the Magnet Schools Assistance Program (MSAP) grant application for the 2013 submission. Therefore, the planning for this change began during the 2012-2013 school year and the implementation is pending award of the MSAP grant. The iTech program will offer a sequence of courses that provides coherent and rigorous content, align with challenging academic standards and relevant technical knowledge and skills, needed to prepare students for careers in <b>Geospatial Information Studies (GIS), Enterprise Resource Planning (ERP), and Microsoft Applications/Systems Engineer (iCode)</b> Information Technology career cluster. The iTech Academy focuses on technical skill proficiency, through competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills. Coursework encompasses all aspects of the Information Technology career cluster aligned to the STEM career cluster.</p> <p>The <b>iCode</b> strand will offer a sequence of courses that will provide students with the opportunity to become fluent in programming language and prepared for advanced educational opportunities and careers as tech entrepreneurs and software engineers. The students in <b>iCode</b> will demonstrate technical skill proficiency through competency-based applied learning that contributes to academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills. Specialized programming skills involving advanced mathematical calculations and physics are also integrated into the curriculum. Students will shadow and work alongside district technicians and technicians in identified local businesses who will serve as mentors. Students will have the opportunity to earn Microsoft Certified Solutions Developer (MCSD) or Microsoft Certified Solutions Expert (MCSE) certifications.</p>
Charles R. Drew Educational Center	<p><b>Transportation, Distribution and Logistics</b></p> <p>The restructuring of Dr. Charles R. Drew Middle School into a 9-12 configuration will be part of reinventing of this facility into a highly specialized school for Transportation, Distribution and Logistics. The planning for this change began during the 2012-2013 school year and the implementation will be phased in during the 2013-2014 school year beginning with adding the 9<sup>th</sup> grade</p>



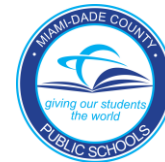
## Millennial Access Platform – (Inspired Idea) MAPS to Radically Different Learning Environments

	<p>as another magnet option.</p> <p>Global Logistics and Supply Chain Technology is one of the fastest growing industries in the world. With the Port of Miami in our “backyard” and Miami as the Cruise Capital of the World, Miami is a natural international logistics hub. According to the U.S. Bureau of Labor Statistics, demand will expand as global trade grows and South Florida, an international hub for cargo transit and storage, will be directly connected to this expected growth. Have you ever wondered how that cup of java made with exotic coffee beans gets to your local café? How a car gets to the showroom from Japan?</p> <p>The Global Logistics and Supply Chain Technology program offers a sequence of courses that provides rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Transportation, Distribution and Logistics career cluster. Logistics encompasses the planning and coordination of delivery of products and services to customers all over the world. The Supply Chain is the network of retailers, distributors, transporters and suppliers that participate in the sale, delivery, and production of a product.</p> <p>Course content includes but is not limited to: Introduction to Information Technology Applications, Global Logistics Operations and Management and Global Logistics &amp; Supply Chain Management. Students will be offered the opportunity to take the industry exam for certification as a Global Logistics Associate (GLA). Upon successful completion of the academy courses and the GLA exam, students will be eligible for the award of 12 college credits toward the Supply Chain Management AS degree from a Florida public post-secondary college that offers the program.</p>
<p>G. Holmes Braddock Senior</p>	<p><b>iPrep Academy@G. Holmes Braddock</b></p> <p>This innovative iPrep magnet academy provides students with the opportunity to accelerate in the high school curriculum in a non-traditional academic setting. College preparatory coursework will be enhanced by a technology enriched environment that is uniquely designed to meet each student’s needs. Students will participate in a variety of instructional designs, including online instruction, flexible face-to-face facilitated instruction, and exposure to a multitude of collegiate partnerships.</p>

The new additional choice schools and programs for 2013-2014 are as follows:

School	Additional Choice
West Homestead K-8 Center	West Homestead Elementary School will expand its reach to include grades 6 – 8 and as such will be restructured as a K-8 Center.





# Millennial Access Platform – (Inspired Idea) MAPS to Radically Different Learning Environments

<p>MAST@FIU BCC</p>	<p><b>MAST@ FIU BCC</b>          MAST@ FIU BCC 8-12 Academy will offer students the opportunity to access a specialized senior high school with advanced programs in the fields of Earth-Environmental Science and Marine Science in order to prepare more students to meet the high expectations of the present and future global marketplace. The purpose of this new academy is to provide students with a challenging curriculum that will expose them to science, mathematics, engineering, technology and research methodology and applications. With this focus in mind, the school will be created through a partnership with Florida International University (FIU), and through this partnership students will receive opportunities for internships, research, Advanced Placement and Dual Enrollment.</p>
<p>John A. Ferguson Senior</p>	<p><b>Re-Structure into four smaller schools</b>          As an opportunity to expand successful programs, provide additional depth for some, and phase out those which are no longer viable, the curriculum strands at John A. Ferguson Senior are being re-designed to meet the needs of a 21<sup>st</sup> century global community. As part of this re-structuring, Ferguson Senior will be sub-divided into four smaller schools, with the intent that each school would have their own administrator, lead teacher, counselors and teaching staff. Much like a college campus, each school will be fully autonomous and distinct. The four schools will be structured under the following four themes – DASH @Ferguson; iTech @Ferguson; Bio-Medical @Ferguson; International Academics @Ferguson</p>

**Objectives:** Increase the number of choice options for parents and students interested in pursuing careers through additional choice/magnet offerings that include: Cambridge, Science, Mathematics, Legal Studies, Information Technology, and the Arts; increase the percentages of students who successfully graduate and are employed in various fields; and increase the number of students with the skills required to compete in a global economy.

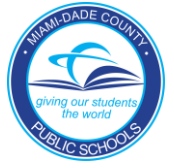
**Deliverables:** Forty-two (42) new programs/choice options at thirty-eight (38) school sites will be either operational or in planning phase for the 2013-2014 school year.

**Implementation Timeline:** Most are opening in 2013-2014; the grant funded schools will be in a planning mode.

**Performance Measure:** Measures of success for each of the choice/magnet programs will include student application and enrollment, in addition to specific thematic student performance in the individual school site programs; as well as documentation of community and higher education partnerships.

**Responsible Cabinet Member:** Ms. Milagros R. Fornell, Chief Academic Officer, Office of Academics and Transformation

**Summary:** Miami-Dade County Public Schools (M-DCPS) remains committed to the principle that all students deserve an opportunity to participate in rigorous and academically challenging courses and programs. M-DCPS understands that our economic vitality is largely derived from the productivity of well-



## **Millennial Access Platform – (Inspired Idea) MAPS to Radically Different Learning Environments**

---

trained people and the steady stream of innovations they produce. As we move toward a knowledge-based economy, the District needs to make bold and courageous investments in our intellectual capital. Miami-Dade County Public Schools firmly believes that strong school choice options based on quality thematic offerings will provide students a powerful foundation that will prepare them to thrive and excel in postsecondary education and the workplace. These unique programs of study will prove to be gateways to a productive life and to a positive future for our students.