How to Apply

Applications may be obtained online during the October 1st - January 15th application period. Magnet applications are available through a simple on-line submission process at **MiamiMagnets.org.** When the number of applications exceeds the number of spaces available in a Magnet program, a computerized random selection process is used for student selection. Additional information on the Magnet application process can be found at the School Choice & Parental Options website: **MiamiMagnets.org**

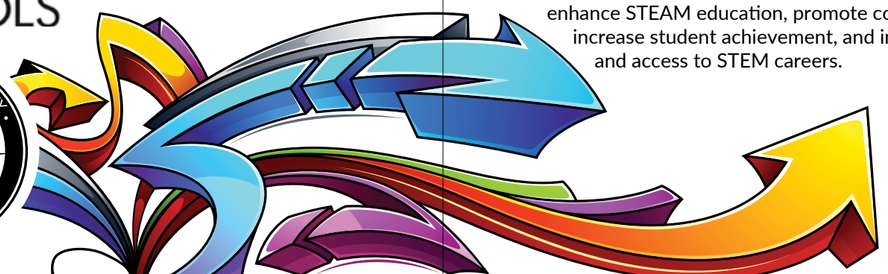
SCHOOL BOARD POLICY: 2370, Magnet Programs/Schools

Timelines

Applications for Magnet programs are accepted yearly from October 1st through January 15th. Applications received during this period are considered for the following school year. Applications received after this window period are processed only if there are seats available in a selected program.

FRANCES S. TUCKER SCHOOL
3500 Douglas Rd, Miami, FL 33133
(305) 567-3533
STArtsMagnet.com
@francestuckereagles

MAGNET SCHOOLS



Our Partners

FAIRCHILD TROPICAL BOTANIC GARDEN

Located in Miami, Fairchild Tropical Botanic Garden (FTBG) is one of the world's leading botanic gardens. FTBG has a long-standing history of educational programming and community outreach that promotes understanding and conserving tropical biodiversity. Our partnership with FTBG supports environmental awareness, scholarship, and stewardship through a combination of multidisciplinary projects, hands-on research, and citizen science opportunities.

Discovery EDUCATION Discovery Education goes beyond traditional learning with award-winning digital content and professional development to make learning relevant for students. This partnership will provide compelling, high-quality content and curriculum supporting educators and engaging students within a safe, digital learning platform. STArts Magnet Program schools will have access to Discovery Education resources: STEM TechBooks and STEM Connect.

FIU Medina Aquarius Program FLORIDA INTERNATIONAL UNIVERSITY Deployed 60 feet beneath the surface of the Florida Keys National Marine Sanctuary, the Aquarius Reef Base provides unparalleled means to study the ocean and engage students through in-person and virtual experiences. This partnership will inspire the next generation of researchers and explorers through unique, innovative, interactive, and experiential education and outreach programs.

NASA Our partnership with NASA Education will attract students to STEM through unique and engaging learning opportunities that connect them with NASA's mission and work. This partnership will allow students to contribute to NASA's exploration and discovery efforts by engaging them in authentic experiences with NASA's scientists, content, and facilities. The intended outcome is a generation prepared to code, calculate, design, and discover its way to a new era of American innovation.

Innovative Instructional Strategies

The STArts Magnet Program will incorporate innovative instructional methods such as Computer-Supported Collaborative Learning (CSCL), Inquiry-Based Learning, Problem-Based Learning, and Design Thinking. This hierarchy of instructional strategies fosters student achievement, critical thinking, problem-solving, and interdisciplinary collaborative learning. CSCL is a pedagogical approach in which learning occurs through social interaction using a computer or the internet. The STArts Magnet Program will integrate technology into the curriculum to enhance STEAM education, promote collaboration, increase student achievement, and improve equity and access to STEM careers.

MAGNET SCHOOLS

MAGNET SCHOOLS are specialized public school programs offering unique thematic strands of study that focus on students' special interests, talents, and abilities for ALL grade levels.

When it comes to educational opportunity, Miami-Dade County Public Schools (M-DCPS) is the **most innovative** and progressive school district in the country, offering parents and students the option to choose from **hundreds of Magnet programs** in over 100 public schools throughout Miami-Dade County. M-DCPS' Magnet programs ensure that all students have the opportunity to experience the **highest quality education**, which will build on their personal and educational interests, strengths, and skills while encouraging **academic excellence**. Through M-DCPS' Magnet programs, students prepare to thrive and excel in post-secondary education and in the work place.

WHY Magnet?

- High quality education options in grades Pre-K through 12
- Innovative public school programs
- High-interest, thematic educational programs focusing on students' interests and abilities
- In-depth study of thematic topics
- Innovative curriculum designed to prepare students for higher education and eventual career success
- Improved academic achievement
- Increased cultural competence
- Higher attendance rates
- Higher graduation rates
- Community and industry partnerships promote and support theme-based, authentic educational environments

@MiamiMagnets

Anti-Discrimination/Harassment (Students) – School Board Policies 1362, 3362, 4362, and 5517
Prohibit harassment and/or discrimination against students, employees, or applicants on the basis of sex, race, color, ethnic or national origin, religion, marital status, disability, genetic information, age, political beliefs, sexual orientation, gender, gender identification, social and family background, linguistic preference, pregnancy, citizenship status, and any other legally prohibited basis. Retaliation for engaging in a protected activity is also prohibited. For additional information contact: Office of Civil Rights Compliance (CRC), Executive Director/Title IX Coordinator, 155 N.E. 15th Street, Suite P104E, Miami, Florida 33132, Phone: (305) 995-1580 TDD: (305) 995-2400, Email: crc@dadeschools.net Website: http://crc.dadeschools.net

Boy Scouts of America Equal Access Act of 2002 – no public school shall deny equal access to, or a fair opportunity for groups to meet on school premises or in school facilities before or after school hours, or discriminate against any group officially affiliated with Boy Scouts of America or any other youth or community group listed in Title 36 (as a patriotic society).

FRANCES S. TUCKER SCHOOL

STArts

(Science, Technology, and Arts Exploration & Innovation)

Dance/Kinetic Movement

Magnet Program

STArts

The Science, Technology, and Arts Exploration & Innovation (STArts) Magnet Program is a unique **STEAM** (Science, Technology, Engineering, Arts, and Mathematics) Magnet program that envisions all students succeeding through equitable access to high-interest instruction. The **STArts Magnet Program** will engage students with hands-on learning opportunities focused on Sea, Land, Space, and **Dance/Kinetic Movement** exploration and innovation. Students participating in the **STArts Magnet Program** will develop ingenuity, critical thinking, and collaborative problem-solving in these and other areas through a well-rounded lens.

WHY FRANCES S. TUCKER?

Frances S. Tucker Elementary School is in the heart of West Coconut Grove, a historically and culturally rich neighborhood. Its centralized location makes it easily accessible to students from a variety of nearby communities. The **STArts Magnet Program** at Frances S. Tucker School will serve all boundary and Magnet applicant students without distinction. Furthermore, Frances S. Tucker School is being recommended for expansion into a K-8 school over the next three years. Ultimately, this expansion will prepare students for success in **STEM** or Arts Magnet programs at the secondary level and beyond. The **STArts Magnet Program** at Frances S. Tucker School will incorporate **STEAM** education, increase academic rigor, and inspire interest in STEAM careers.

Arts integration inspires student engagement, promotes student achievement, fosters creativity, drives innovation, and encourages collaboration. Therefore, infusing the arts into the STEM curriculum is an essential component of the STArts Magnet Program. Students who learn while working through the creative processes found in STEM and the Arts become thoughtful risk-takers and engage in collaborative experiential learning and problem-solving. These are the innovators, educators, leaders, and learners of the 21st century.

Dance & Kinetic Movement

Integration of **Dance and Kinetic Movement** exploration and innovation through the **STArts Magnet Program** at Frances S. Tucker School will have a multifaceted effect on student learning. Students will study human body movement through kinesiology and apply it to the sciences, dance, and even athleticism. The **STArts Magnet Dance Program** will ensure that students receive quality and rigorous Dance instruction while providing equitable access to competitive Dance programs at the secondary school level.

Think Ahead

The U.S. Bureau of Labor Statistics (BLS) 2019–29 employment projections show that occupations in the **STEM field are expected to grow 8.0 percent** by 2029, compared with 3.7 percent for all occupations.

STEM FIELD OCCUPATIONS **8%**

ALL OTHER OCCUPATIONS **4%**

Space Science

A new emphasis on space education has taken astronomy beyond identifying celestial objects to applying it to environmental sustainability. Fortunately, technological advancements have made the experiential learning of space science accessible to all students. The **STArts Magnet Program** will inspire students to explore and innovate in the cross-section of environmental and space sciences. Partnerships with **NASA** and **Discovery Education** will permit students to travel virtually to extraterrestrial lands and communicate remotely with scientists. Meanwhile, simulations in space will allow students to explore, research, and design for the next frontier.

Marine Science

South Florida is an epicenter for cutting-edge research on coral reefs, ocean acidification, climate change, fisheries, and overall ocean health. The **STArts Magnet Program** will engage students in marine science exploration and provide students with experiential opportunities to discover and preserve marine ecosystems. Partnerships with local marine science research and conservation organizations, such as **Florida International University's Medina Aquarius Program**, will allow students to participate in real-world science through interactive lessons and unique, authentic learning opportunities.

Environmental & Conservation Science

National demand, coupled with the environmental factors impacting Miami-Dade County, make focusing on environmental science a critical theme for the **STArts Magnet Program**. Partnerships with local environmental research and action groups, including **Fairchild Tropical Botanic Garden**, will give students hands-on learning opportunities to solve local problems related to sustaining and conserving the sensitive ecosystem of Miami-Dade. Emphasizing environmental **STEM exploration and innovation** through the **STArts Magnet Program** will create a community of innovative environmental stewards ready to address the sustainability needs of Miami-Dade County and the global community.