The Ingenuity Project
A proven accelerated Math, Science, and Research Education for Baltimore City Students in Grades 6-12

ATTENTION
Baltimore City 5th and 8th Graders...

“The future belongs to the curious. The ones who are not afraid to try it, explore it, poke at it, question it and turn it inside out.”
– ANONYMOUS

Online application opens October 1, 2019. Deadline to apply is December 20, 2019!
www.ingenuityproject.org
WE OFFER:
• Challenging and experiential coursework
• An emphasis on inquiry, investigation, strong work habits, and mastery of concepts
• Experienced math and science teachers

OUR SCHOOLS:
• Baltimore Polytechnic Institute (Poly)
• Hamilton Elementary/Middle School
• James McHenry Elementary/Middle School
• Mount Royal Elementary/Middle School
• Roland Park Elementary/Middle School

WHAT MAKES INGENUITY EXCEPTIONAL?
For almost 25 years, The Ingenuity Project, in partnership with Baltimore City Public Schools, has provided an accelerated math, science, and research program to Baltimore City middle and high school students. Alumni of the program are becoming the next generation of leaders in science, technology, engineering, and math.

New Middle School Program at James McHenry
The first class of 6th graders enrolled in The Ingenuity Project at James McHenry for this 2019-2020 school year. They are paving the way for an exciting new opportunity for rigorous math and science curriculum and enrichment in West Baltimore. In addition to what Ingenuity brings, James McHenry provides a well-rounded complement of courses and after-school opportunities.
WHO CAN APPLY?
All current 5th and 8th grade students who are Baltimore City Residents are eligible to apply.

- Students enter the program in either 6th or 9th grade.

HOW TO APPLY:
- Apply online at www.ingenuityproject.org.
- Online applications are preferred and can be completed on a computer, smart phone, or mobile device. Paper applications may be filled out and delivered to Ingenuity’s office at Poly. Paper applications are available at Ingenuity’s office and from each Baltimore City School Choice Liaison.
- All applicants must take the Cognitive Abilities Test™ (CogAT) Form 7 administered by Ingenuity. The test contains verbal, nonverbal, and quantitative sections. Free sample practice tests will be provided to all applicants. Applicants will be sent a confirmation email to attend Ingenuity’s test day at least two weeks prior to testing. Testing is on January 11, 2020 (If Baltimore City Public Schools are closed due to inclement weather the alternate test date will be January 25, 2020).
- High school applicants must also take an Algebra I exam on test day. Students should complete Algebra prior to entering the program. The Ingenuity math sequence begins with Honors Geometry in 9th grade and progresses to Honors Algebra II in 10th grade, with Advanced Placement (AP) Calculus in the senior year. Students who qualify for Ingenuity but score below 80% on the Algebra I admissions test must enroll in Ingenuity’s four-week summer Algebra course at Poly beginning in June.

ADMISSIONS:
Ingenuity is a good fit for students with a history of strong performance and interest in math and science, complex and logical thinking, persistence, and the ability to grasp new material and concepts quickly. The program is committed to identifying a cohort of diverse students that reflects the ethnicity, gender and income of Baltimore City.

Ingenuity calculates a composite score for each applicant which is different from the district composite score.

Ingenuity’s composite score consists of:
- PARCC English Language Arts and Math,
- Prior year and first quarter of the current year Math and English Language Arts report card grades,
- Results on Ingenuity’s administered CogAT,
- Ingenuity’s administered Algebra I exam (high school applicants only)

*For more information, see the Admissions Frequently Asked Questions on our website.

REQUIRED STUDENT DATA
By applying to Ingenuity, parents and guardians give the program permission to receive grades and test scores and administer the CogAT (Cognitive Abilities Test).

- Students currently enrolled in Baltimore City Schools are not required to submit test scores or report cards. These will be provided to Ingenuity from the district after applying.
- Students currently enrolled in a Private / Independent School or Non-Baltimore City Public School are required to provide the Ingenuity Principal/Guidance Counselor Form (downloaded from Ingenuity’s website) with an official report card and PARCC scores by Friday, December 20, 2019.
- Students who did not take the PARCC Assessment last year must contact Mr. Darryl Smith in Baltimore City Public Schools’ Achievement and Accountability Office to register for the equivalent, iReady diagnostic. Mr. Smith can be reached at djsmith@bcps.k12.md.us. The last day to take the assessment is Friday, December 13, 2019. Please note: There is a district testing fee of $25.00 associated with this diagnostic.

HIGH SCHOOL APPLICANTS (ONLY)
Applicants must complete the Baltimore City Public Schools High School Choice application and rank Baltimore Polytechnic Institute as the first choice. Ask middle school guidance counselors or call the Office of Enrollment, Choice & Transfers at (443) 984-2000 to request this application or visit www.baltimorecityschools.org. All City Schools students should submit their applications to their school. Non-City Schools (private or independent) students should submit their district applications to the Office of Enrollment, Choice & Transfers.
The Ingenuity Project middle school program provides students with rigorous math and science courses and experiences that prepare and inspire a pursuit of advanced STEM curriculum in high school. A hallmark of Ingenuity’s middle school program is its emphasis on inquiry, investigation, strong work habits, and deep mastery of concepts.

ABOUT OUR MIDDLE SCHOOL STUDENTS...
Student growth exceeds national averages in math and science according to annual program evaluations.
• 100% of Ingenuity 8th grade students are accepted to selective high schools in Baltimore.
• Nearly 100% of 8th grade students enter high school with Algebra I high school credit.
• Close to 50% of Ingenuity students perform in the top 10% nationally in math and science at the end of the program.

What makes Ingenuity’s Middle School Program unique?
• Small math classes taught by experienced teachers*
• A proven honors math and science curriculum
• Experiential and rigorous curriculum that prepares students for advanced coursework in high school
• High standards for student performance that foster academic excellence, strong study skills, and organization
• Interaction with a cohort of highly motivated and engaged peers
• Preparation for regional math and science competitions

* Hamilton, James McHenry, and Mount Royal offer a 15:1 student to teacher ratio in math class each year. Roland Park 6th and 8th grades math classes are 16:1 (7th grade student to teacher ratio is typically 32:1).
## Experiential & Rigorous STEM Curriculum

<table>
<thead>
<tr>
<th>Grade</th>
<th>Courses</th>
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</table>
| 6th Grade | • Singapore Math  
          | • Earth and Space                            |
| 7th Grade | • Pre-Algebra  
          | • Biology                                    |
| 8th Grade | • Honors High School Algebra I  
          | • Physics and Chemistry                      |

*Students enrolled in Ingenuity’s middle school programs are typically placed in Baltimore City Honors English Language Arts and Social Studies classes.

### Our Math Approach

Ingenuity begins in 6th grade with Singapore Math®, a nationally recognized curriculum progressing to pre-Algebra in 7th grade, and Honors High School Algebra I in 8th grade. The curriculum moves from the concrete, to pictorial, and then to abstract understandings that foster critical thinking and a love for math. Teachers offer opportunities to solve problems outside the traditional curriculum.

### Science and Engineering Curriculum

Ingenuity’s curriculum places a strong emphasis on the scientific inquiry process and investigation into scientific research. Students work with their teachers early in the year to carefully design science projects and compete in science fairs such as the citywide Morgan State Science Fair.

Principles of engineering are grounded in long-term projects that promote real-world problem solving and collaboration.

**Project Spotlights:**

- Students in 7th grade work in teams designing solutions to reduce nitrogen pollution in the Chesapeake Bay and showcase projects at the Columbus Center.
- In 8th grade, students design rockets and houses to explore concepts in heat and energy.

### Summer and Afterschool

**Ingenuity provides summer programs that introduce and engage students in STEM.** All incoming 6th-grade students begin their Ingenuity journey with a two-week summer Middle School Jump Start Program. Students participate in hands-on STEM projects, learn the Singapore math approach and establish relationships with their peers and teachers. Dates will be posted online in January.

All Ingenuity schools form afterschool teams for nationally recognized competitions such as MathCounts®. Ingenuity teachers also offer afterschool homework help and academic support.
The Ingenuity Project high school program aligns to the highest standards in math and science to enable students to enroll in selective colleges and succeed in STEM careers.

INGENUITY AT POLY STUDENT ACHIEVEMENT CLASS OF 2019

• 4.0 or higher weighted average GPA.
• 58% conducted research or participated in internships outside the classroom.
• 92% of all math and science Advanced Placement courses were passed.
• 98% currently enrolled in college.
• 98% accepted to very competitive colleges.
• $11,829,216 awarded in college scholarships for the Ingenuity Poly Class of 2019.

In addition to every opportunity Poly has to offer, Ingenuity high school scholars experience the following benefits:

• Honors and Advanced Placement (AP) classes in math and science for college credit
• Off-campus research opportunities and internships with renowned universities and research institutions
• Personalized student and family guidance for selecting colleges and college financing
• Outstanding master teachers who provide challenging, small-class instruction
• High standards for student performance that foster academic leadership and collaboration
• Interaction with a cohort of highly motivated peers
• Connection to a network of alumni and professionals in STEM-related careers

Ingenuity’s culture and preparation provide a strong foundation for success at competitive colleges.
Personalized College Advising
- Early college and career exploration in 9th and 10th grades.
- Programs to support academic achievement, study skills, and leadership development.
- Guidance with college search, application process, and scholarship identification.
- Targeted support for first generation and low income college-bound students.

Off-Campus Research and Career Exploration
Ingenuity supports students interested in cutting-edge research and development in the fields of science, technology, mathematics, and engineering (STEM). These programs connect students with opportunities to engage with university faculty and researchers throughout Baltimore City’s most prestigious universities and research institutions.

The Research Experience
- Plan and implement scientific research projects.
- Apply creative, independent thinking, and refine communication skills.
- Produce high-quality written work to enhance applications to top colleges.
- Discover leading-edge careers in STEM.
- Compete in regional and national math, science, and engineering competitions such as the Regeneron Student Talent Search (formerly Intel), Maryland Junior Science and Humanities Symposium, and the Baltimore Science Fair.
## ADMISSIONS TIMELINE

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<thead>
<tr>
<th>Important Dates</th>
<th>What to Do</th>
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<tbody>
<tr>
<td>October 1, 2019</td>
<td>Ingenuity’s online application opens!</td>
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<tr>
<td>October 16, 2019 @5pm</td>
<td>Attend one of Ingenuity’s Middle School Information Sessions.</td>
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<tr>
<td>November 2, 2019 @10am</td>
<td>For more information about Ingenuity’s Middle School Program please visit our website!</td>
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<tr>
<td>December 12, 2019 @5pm</td>
<td>Visit our table at the Baltimore City Public Schools’ Middle School &amp; High School Choice Fair at the Baltimore Convention Center.</td>
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<tr>
<td>October 27, 2019 @1pm</td>
<td>Attend one of Poly’s Open Houses.</td>
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<tr>
<td>November 7, 2019 @5pm</td>
<td>For more information about open house visit Poly’s website: <a href="http://www.bpi.edu">www.bpi.edu</a></td>
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<td>December 7, 2019</td>
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<td>(For students who did not complete the PARCC exam in the prior school year.)</td>
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<tr>
<td>December 20, 2019</td>
<td>Ingenuity Principal/Guidance Counselor Forms with official report cards and PARCC scores due. (For students currently enrolled in private/independent school or non-Baltimore City Public School only).</td>
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<tr>
<td>January 11, 2020</td>
<td>Take Ingenuity’s admissions test.</td>
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<td>Snow Date: January 25, 2020</td>
<td>Applicants will receive time and location details after applying.</td>
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<tr>
<td>Week of March 20, 2020</td>
<td>Receive admissions decisions.</td>
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<td>Any changes to this date will be updated on our website.</td>
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