In the 21st century, many new and emerging career opportunities will be more efficient transportation, communications and computing systems, and so safe transformation of hazardous contaminants, affordable building structures, and mining. These are the disciplines that address infectious disease, organ and tissue replacements, nutrition, world food supplies, renewable energy sources, the safe transformation of hazardous contaminants, affordable building structures, more efficient transportation, communications and computing systems, and so much more! In the 21st century, many new and emerging career opportunities will be in STEM fields such as genomics, proteomics, bioinformatics, chemical informatics, green technology, nanotechnology, and data warehousing and mining. How do you get your children ready for STEM careers in a global society? How can you prepare your children for advanced college preparatory courses in physics, biology, chemistry and calculus? The first step is to get your child interested at a young age in mathematics and science experiences that are grounded in imagination and inquiry. IMSA programs, students ask compelling questions that interest them and have meaning in their everyday lives. Then working with IMSA teachers and recommending solutions. As a result, IMSA learners retain their sense of wonder and discovery because they put academic concepts to good use by solving real-world problems.

For our society to remain competitive in an advanced technological era, a good science education is critical, regardless of what a child’s eventual course of study will be. The good news is that for most children, science continues to be a source of fascination, and parents can play an active role in tapping into that curiosity and contributing to their success.

The Illinois Mathematics and Science Academy® (IMSA) develops creative, ethical leaders in science, technology, engineering and mathematics. As a teaching and learning laboratory created by the State of Illinois, IMSA enrolls academically talented Illinois students (grades 10–12) in its advanced, residential college preparatory program, and it serves thousands of educators and students in Illinois and beyond through innovative instructional programs that foster imagination and inquiry. IMSA also advances education through research, groundbreaking ventures and strategic partnerships. (www.imsa.edu)

WHAT DO YOU DO NOW?
Go To:
• www.imsa.edu
Or Call:
• IMSA Aurora Campus at 630-907-5850
• IMSA Chicago Field Office at 630-773-4096
• IMSA Metro-East Field Office at 618-791-3855
• IMSA Rock Island Region Field Office at 309-373-7795
• IMSA Three-Year Residential College Preparatory Program and PROMISE at 630-907-5028 or 800-500-IMSA

The internationally recognized Illinois Mathematics and Science Academy® (IMSA) develops creative, ethical leaders in science, technology, engineering and mathematics. As a teaching and learning laboratory created by the State of Illinois, IMSA enrolls academically talented Illinois students (grades 10–12) in its advanced, residential college preparatory program, and it serves thousands of educators and students in Illinois and beyond through innovative instructional programs that foster imagination and inquiry. IMSA also advances education through research, groundbreaking ventures and strategic partnerships. (www.imsa.edu)

STUDENTS: ARE YOU READY?
Do you like to solve mysteries and puzzles? Be the scientist! Ask questions, gather facts, examine data and make conclusions! Why do explosions produce loud noises? Why do buildings fall during earthquakes? What happens when we run out of phone numbers? Why do some people get sick from cold and flu and others don’t? Are environmental factors producing mutated frogs? Be the inventor! Make and launch rockets. Build robots and catapults. Create composites of criminal suspects. Program your own blockbuster video games.

Do you like to ask questions and find answers? Bring Your WILD IMAGINATION AND BIG DREAMS Whether you imagine building the world’s fastest roller coaster, inventing new sources of fuel or discovering new species at the bottom of the ocean, IMSA programs spark your interests, fuel your imagination and get you on the path to fulfilling your big dreams!

Do you like to build things or take them apart?
CONGRATULATIONS...
IMSA student programs are for you! Be a part of IMSA’s student programs that get you on the fast track to cool programs in the hot subjects of science, technology, engineering and mathematics (STEM).

Parents of IMSA Student Program Participants

Fast Facts for Parents:
Science, technology, engineering and mathematics (STEM) contribute to healthy, productive and rewarding lives for you and your children. These are the disciplines that address infectious disease, organ and tissue replacements, nutrition, world food supplies, renewable energy sources, the safe transformation of hazardous contaminants, affordable building structures, more efficient transportation, communications and computing systems, and so much more! In the 21st century, many new and emerging career opportunities will be in STEM fields such as genomics, proteomics, bioinformatics, chemical informatics, green technology, nanotechnology, and data warehousing and mining. How do you get your children ready for STEM careers in a global society? How can you prepare your children for advanced college preparatory courses in physics, biology, chemistry and calculus? The first step is to get your child involved at a young age in mathematics and science experiences that are grounded in imagination and inquiry. IMSA programs, students ask compelling questions that interest them and have meaning in their everyday lives. Then working with IMSA teachers and students, they pursue their questions by collecting facts and information, analyzing data and recommending solutions. As a result, IMSA learners retain their sense of wonder and discovery because they put academic concepts to good use by solving real-world problems.

For our society to remain competitive in an advanced technological era, a good science education is critical, regardless of what a child’s eventual course of study will be. The good news is that for most children, science continues to be a source of fascination, and parents can play an active role in tapping into that curiosity and contributing to their success.

The American Association for the Advancement of Science

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Illinois Mathematics and Science Academy (IMSA) offers a variety of programs designed to serve students in Illinois. By serving as teachers and mentors, they inspire disadvantaged students who have talent and interest in mathematics and technology for students in grades 3–5. These programs are designed to expose students to STEM (science, technology, engineering, and mathematics)-related experiences and introduce them to inquiry-based learning. Through a process of collaboration, discussion, and analytical exploration of mathematical and scientific concepts, IMSA assists students in enhancing their academic and interpersonal endeavors.

**Programs Serving Students in...**

- **Grades 3-5**
  - Summer@IMSA: Provides a wide array of day and residential learning experiences in science, mathematics, engineering, and technology for students in grades 3–10 at various locations in Illinois.
- **Grades 6-8**
  - PROMISE - Summer Enrichment for Academics in Mathematics and Science (SEAMS): Designed to serve students in the summer after their 8th grade year. This two-week, residential experience is designed to improve students’ mathematics, science, and English skills. Group inquiry and problem-solving are primary focuses in the academic curriculum. In addition, the residence hall experience focuses on interpersonal skill development.
- **Grades 9-12**
  - PROMISE - Leading Students 2 Success (LS2S): A cross-age cooperative learning program for 5th, 6th, 7th, and 8th graders designed to expose students to STEM (science, technology, engineering, and mathematics)-related experiences and introduce them to inquiry-based learning. Through a process of collaboration, discussion, and analytical exploration of mathematical and scientific concepts, LS2S assists students in enhancing their academic and interpersonal endeavors.

**Apply for:**

- STEM Enrichment @ IMSA consists of fast-paced programs that are hands-on and integrative. These programs involve students in a variety of STEM explorations that ignite their interests with relevant real-world problems and activities.
- Summer@IMSA provides a wide array of day and residential learning experiences in science, mathematics, engineering, and technology for students in grades 3–10 at various locations in Illinois. Integrative and hands-on, IMSA’s summer programs enable Illinois students to discover the wonders of learning as they apply mathematics and science to build rockets, investigate simulated crimes, confront local environmental issues, diagnose diseases and much more. IMSA summer programs use a collaborative inquiry model, giving participants a “one-of-a-kind” learning experience.
- PROMISE (Providing Opportunities for Mathematics and Science Enrichment) serves underrepresented and economically disadvantaged students who have talent and interest in mathematics and science. The PROMISE pre-admissions programs provide enriching academic experiences that create academic growth and simulate, to some extent, the experience of an enrolled IMSA student.
- PROMISE - Early Immersion Program (EIP) serves students enrolled in 9th grade. The program includes discovery-based and collaborative research activities and some preparation for the Scholastic Assessment Test (SAT). Students develop research, decision-making, and self-motivation skills while studying mathematics, wellness, science, and English literature.
- PROMISE - Summer Enrichment for Academics in Mathematics and Science (SEAMS) is designed to serve students in the summer after their 8th grade year. This two-week, residential experience is designed to improve students’ mathematics, science, and English skills. Group inquiry and problem-solving are primary focuses in the academic curriculum. In addition, the residence hall experience focuses on interpersonal skill development.
- Three-Year Residential College Preparatory Program enables academically talented Illinois students in grades 10–12 to reach extraordinary levels of achievement. IMSA’s highly accomplished faculty and innovative student inquiry and research programs enable students to earn awards from national and global competitions. Personalized learning opportunities, coupled with a world-class, advanced college prep curriculum in mathematics, science, the humanities, English, arts, and music, make the IMSA college prep experience truly unique. Student activities include 18 interscholastic sports, co-curricular activities, and numerous student-run clubs and organizations. With a 99% college placement rate in the nation’s most competitive colleges and universities, an IMSA college prep-experience is an exceptional investment in a child’s future.

**Go online for:**

- IMSA – CyberQuiz 4Kids: Rocks and shakes with online mathematics and science brain teasers and word problems for Illinois students in grades 6–9. Ready for a challenge? Enter CyberQuiz 4Kids Challenge at this link: https://www.imsa.edu/elementaryprograms/cyberquizarchive
- IMSA – FUSION: Motivates students who are talented and motivated in mathematics and science into the fast lane! IMSA FUSION offers a fun, hands-on after-school enrichment program for 4th-5th graders and 6th-8th graders in their schools. IMSA FUSION includes professional development for teachers that provides them with the strategies and materials to implement two exciting curriculum units with students during the school year. Schools must complete an online application to be considered for program participation.
- PROMISE - Project School Visit (PSV) is a classroom field trip visit to IMSA for underrepresented and economically disadvantaged students in grades 6, 7, and 8. Visiting students participate in a hands-on science project taught by IMSA faculty and students, tour campus and learn about IMSA opportunities.
- PROMISE – Project School Visit (PSV)

**Ask your teacher for:**

- IMSA FUSION invites students who are talented and motivated in mathematics and science into the fast lane! IMSA FUSION offers a fun, hands-on after-school enrichment program for 4th-5th graders and 6th-8th graders in their schools. IMSA FUSION includes professional development for teachers that provides them with the strategies and materials to implement two exciting curriculum units with students during the school year. Schools must complete an online application to be considered for program participation.
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