

# Learn about math, science...

## AND YOUR FUTURE!

What will you do with your summer this year? Why not join us for the Science, Technology, Engineering and Math (STEM) Program at MIT? For five weeks, promising students from Boston, Cambridge, and Lawrence public schools will come together with college students to expand their knowledge about math, science, and how things work. You can challenge yourself with rigorous college preparatory courses in Geometry, Physics, Robotics, or a host of other classes; learn a racquet sport; and meet other bright and talented young people from local communities.

The learning doesn't end with the summer. The STEM Program offers students one-on-one mentoring during the school year, as well as workshops for your parents on insuring your continued academic achievement.

### who?

We accept Boston, Cambridge, and Lawrence public school students who will enter 6th, 7th, 8th, or 9th grade in the fall of 2010; they must be U.S. citizens or permanent residents. We look for students who work hard, have good grades, and are interested in math, science, and discovery. We are very selective: just 20-22 students will be admitted to each grade level.

### when?

The five-week summer program classes run from July 5 to August 6, 2010, with an Orientation on the evening of Thurs., July 2 and a Final Presentation on Sat., August 7. All dates are mandatory. Sessions are held Monday to Friday from 8:30am to 5pm. Breakfast, lunch, and daily tutoring are provided free of charge.

### where?

The STEM Program is held on MIT's campus in Cambridge. Bus transportation is provided for Boston and Lawrence residents from select locations throughout each city.

#### Questions?

Contact Erin Salius, at  
617-253-8051 or  
stem@mit.edu.

### how?

Fill out the enclosed application **carefully**. (We suggest that you do a rough draft first.) Return the following items to us by **March 15, 2010**:

- complete application
- a copy of your most recent report card
- a copy of your complete report card from last year (2008-2009)
- sealed letters of recommendation from your science and math teachers (these may be mailed separately)
- a wallet-sized picture of yourself.

Unfortunately, we cannot review incomplete applications, so double-check that you have everything, and mail it to

#### MIT STEM Program

77 Massachusetts Avenue, Rm. 1-123

Cambridge, MA 02139

Fax: 617-324-1120

<b>GENERAL INFORMATION</b>				
<b>FULL NAME</b>				
<b>STREET ADDRESS</b>				
<b>CITY, STATE, ZIP CODE</b>				
<b>HOME TELEPHONE</b>				
<b>EMAIL ADDRESS</b>				
<b>CURRENT SCHOOL NAME/CITY</b>	CITY			
<b>CURRENT GRADE IN SCHOOL</b>	5TH	6TH	7TH	8TH
<b>SCHOOL ATTENDING NEXT YEAR</b>				
<b>BIRTH DATE (mm/dd/yy)</b>				
<b>BIRTHPLACE (city/state/country)</b>				
<b>GENDER (circle one)</b>	Male	Female		
<b>CITIZENSHIP (circle one)</b>	American Citizen	Permanent Resident		
<b>ETHNICITY: With which ethnic group do you <u>most</u> closely identify?</b>	African American	Native American	Asian	
	Caucasian	Hispanic/ Latino	Other _____	
<b>LANGUAGE(S) SPOKEN AT HOME</b>				
<b>I LIVE WITH (circle one)</b>	Mother	Father	Both Parents	Guardian
<b>I PREVIOUSLY ATTENDED (circle one, if applicable)</b>	STEM Program (When? _____)		MSBP (When? _____)	

<b>PARENTAL INFORMATION</b>			
<b>MOTHER'S NAME</b>		<b>FATHER'S NAME</b>	
<b>ADDRESS (if different from above)</b>		<b>ADDRESS (if different from above)</b>	
<b>HOME PHONE</b>		<b>HOME PHONE</b>	
<b>WORK PHONE</b>		<b>WORK PHONE</b>	
<b>EMAIL ADDRESS</b>		<b>EMAIL ADDRESS</b>	
<b>BIRTHPLACE (city/state/country)</b>		<b>BIRTHPLACE (city/state/country)</b>	
<b>CITIZENSHIP</b>		<b>CITIZENSHIP</b>	

<b>PARENTAL INFORMATION Continued</b>			
<b>MOTHER'S HIGHEST LEVEL OF EDUCATION COMPLETED (circle one)</b>	High School Diploma Associates Degree Bachelors Degree Graduate Degree	<b>FATHER'S HIGHEST LEVEL OF EDUCATION COMPLETED (circle one)</b>	High School Diploma Associates Degree Bachelors Degree Graduate Degree
<b>HOW MANY PEOPLE LIVE IN YOUR HOUSE?</b>		<b>HOW MANY OF THOSE PEOPLE ARE UNDER 18 YEARS OLD?</b>	
<b>DO YOU QUALIFY FOR FREE OR REDUCED SCHOOL LUNCH? (circle one)</b>	YES / NO	<b>IS YOUR FAMILY INCOME <u>UNDER</u> \$50,000 PER YEAR? (circle one)</b>	YES / NO

**ACTIVITIES & INTERESTS**

Please list any academic enrichment or extracurricular programs (hobbies, sports, clubs, etc.) in which you have participated during the summer or academic year? Please note if you received any honors or awards.

<b>SUMMER PROGRAMS</b>	<b>YEAR</b>	<b>EXTRACURRICULAR ACTIVITIES</b>	<b>YEAR</b>

**ACADEMIC HISTORY**

Circle all of the following subjects that you have completed or are currently enrolled in.

<b>Middle School Courses:</b>		<b>STEM Program Courses:</b>
5 <sup>th</sup> Grade Math	5 <sup>th</sup> Grade Science	Topics in Algebra
6 <sup>th</sup> Grade Math	6 <sup>th</sup> Grade Science	Biology
7 <sup>th</sup> Grade Math	7 <sup>th</sup> Grade Science	Chemistry
8 <sup>th</sup> Grade Math	8 <sup>th</sup> Grade Science	Physics
Algebra, 1 <sup>st</sup> year	Physics	Vector Mechanics
Algebra, 2 <sup>nd</sup> year	Chemistry	Probability and Statistics
Geometry	Computer Programming	
Trigonometry		

**STUDENT STATEMENT OF INTENT (To be completed by the applicant.)**

**1.) What made you want to apply to the STEM Program?**

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**2.) Why are you interested in studying science, technology, engineering and mathematics?**

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**3.) What would you like to be when you grow up? Why?**

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**4.) What subjects do you plan to study in college? (Please circle your answers.)**

Health Sciences (Medicine)

Computer Science

Forensic Science

Physics

Mathematics

Biological Sciences

Chemistry

Engineering

Other: \_\_\_\_\_

**SCIENCE TEACHER RECOMMENDATION FORM (Two Pages)**

The MIT STEM Program is a year-round science, technology, engineering and math enrichment opportunity **offered free of charge** to entering sixth, seventh, eighth and ninth grade students who attend public schools in Boston, Cambridge and Lawrence, MA. The program consists of three components: 1) a five-week Summer Institute on MIT's campus that develops students' mathematical intuition and problem-solving abilities; 2) an optional academic-year mentoring program that pairs each participant with an MIT undergraduate student mentor; 3) a parents programming series that aims to empower parents to advocate for and equip their children for high academic achievement. The STEM Program seeks applicants who are passionate about science and math, who demonstrate potential to succeed in school, who contribute positively to the classroom environment, and who will truly benefit from a no-cost enrichment opportunity,

**Instructions:** Please complete this form in blue or black ink and return it to your student in a **sealed envelope** or mail it to 77 Massachusetts Ave., Cambridge, MA 02139 for inclusion in his or her application. The deadline for submission is **5:00 p.m. March 15, 2010**. Thank you very much for your time!

<b>STUDENT NAME</b>	
<b>YOUR NAME</b>	
<b>SCHOOL NAME</b>	
<b>COURSE TITLE</b>	
<b>WORK TELEPHONE</b>	
<b>EMAIL ADDRESS</b>	

**PERSONAL OBSERVATION**

**Please share your candid thoughts about this candidate's ability to succeed in the STEM Program? (Please attach an additional sheet of paper if necessary.)**


Due March 15, 2010

<b>SCIENCE PERFORMANCE ABILITIES</b>					
<b>Please rank this applicant's abilities. (Place a check in only one of the columns.)</b>					
<b>1= Exceptional/top 5%, 2= Excellent/top 10%, 3=Average, 4= Satisfactory, 5= Poor</b>					
1. Possesses a comfortable knowledge of basic skills and factual information for this course.	1	2	3	4	5
2. Has ability and desire to follow through on work, and is able to see a problem through to its end.	1	2	3	4	5
3. Pursues interests to understand or satisfy curiosity—wants to know how and why.	1	2	3	4	5
4. Generates questions on his/her own — questions the common, ordinary or unusual.	1	2	3	4	5
5. Enjoys the challenge of difficult problems, assignments, issues and materials.	1	2	3	4	5
6. Requires a minimum of adult direction and attention — able to do independent work.	1	2	3	4	5
7. Completes homework and other assignments on time.	1	2	3	4	5
8. Is able to function effectively in a group.	1	2	3	4	5
9. Seems self-confident, happy and comfortable in most situations.	1	2	3	4	5
10. Is able to cope with normal frustrations — adapts to change with minimum difficulty.	1	2	3	4	5
11. Has a positive attitude in class, with peers and adults.	1	2	3	4	5
12. Receptive to new tasks or experiences — willing to take reasonable risks.	1	2	3	4	5
13. Attends class regularly.	1	2	3	4	5
14. Completes high quality homework and other assignments as directed and on time.	1	2	3	4	5
Science Teacher Signature _____ Date _____					



<b>MATH PERFORMANCE ABILITIES</b>					
<p><b>Please rank this applicant's abilities. (Place a check in only one of the columns.)</b>  <b>1= Exceptional/top 5%, 2= Excellent/top 10%, 3=Average, 4= Satisfactory, 5= Poor</b></p>					
1. Possesses a comfortable knowledge of basic skills and factual information for this course.	1	2	3	4	5
2. Has ability and desire to follow through on work, and is able to see a problem through to its end.	1	2	3	4	5
3. Pursues interests to understand or satisfy curiosity—wants to know how and why.	1	2	3	4	5
4. Generates questions on his/her own — questions the common, ordinary or unusual.	1	2	3	4	5
5. Enjoys the challenge of difficult problems, assignments, issues and materials.	1	2	3	4	5
6. Requires a minimum of adult direction and attention — able to do independent work.	1	2	3	4	5
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12. Receptive to new tasks or experiences — willing to take reasonable risks.	1	2	3	4	5
13. Attends class regularly.	1	2	3	4	5
14. Completes high quality homework and other assignments as directed and on time.	1	2	3	4	5
<p><b>Math Teacher Signature</b> _____ <b>Date</b> _____</p>					