



Indus Center for Academic Excellence

18239 W 12 Mile Road

Lathrup Village, Michigan 48076

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August 24, 2023

Dear Head of Math Department

ICAE, Indus Center for Academic Excellence, is a year around math & science enrichment program for students in grades 3 to 12. ICAE supplements the grade school curriculum of our participating students by developing their logical thinking and problem-solving skills through weekly problem-solving classes. An important aspect of our program is encouraging the students to participate in many regional, state, and national level mathematics competitions. Some of these competitions are offered at ICAE.

We realize that many of our students have an opportunity to compete in some of these competitions through their home schools. We require our students to compete with their home schools, whenever they can. The students are eligible to write a math contest at ICAE only if their home school does not offer that contest. However, we need your help in reinforcing this policy. I want to thank you all for providing this information in past.

Following is a list of math contests offered at ICAE to the elementary students (grades 3-5). We need your help in identifying the contests your students have an opportunity to participate in your school. **Please provide this information to the student on your school letterhead or communicate directly to me by e-mail (rkhetan@sbcglobal.net).**

List of Competitions at ICAE for students in Grades 3-5

1. MOEMS (Mathematics Olympiad for Elementary & Middle School Students) - Offered 5 times during the Academic year.
2. CJMC (Canadian Jay Math Competition) –Open to the adventurous elementary students.
3. AMC8 (American Math Competitions for 8th grade) – Our younger students have an option to write AMC8 contest
4. Purple Comet Math Meet for Middle School - Open to the adventurous elementary students.
5. Gauss 7 (Canadian Math Competition for 7th grade) – All our elementary grade students are eligible to participate in Gauss-7
6. Pascal & Fryer (Canadian Math Contest for 9th grade) – Open to the adventurous elementary students.

Sincerely,

Dr. Raghunath P. Khetan

Director, ICAE



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Following is a list of math contests offered at ICAE to the middle grade students (grades 6-8). We need your help in identifying the contests your students have an opportunity to participate in your school. **Please provide this information to the student on your school letterhead or communicate directly to me by e-mail (rkhetan@sbcglobal.net).**

List of Competitions at ICAE for students in Grades 6-8

1. MOEMS (Mathematics Olympiad for Elementary & Middle School Students) - Offered 5 times during the Academic year.
2. CLMC (Canadian Lynx Math Competition) – Open to all middle school students.
3. CJMC (Canadian Jay Math Competition) – Open to all middle school students.
4. COMC (Canadian Open Math Challenge) – Open to advanced middle school students.
5. ARML Power and ARML Local (National math contests for high school students) – Open to all advanced middle school students
6. AMC8 & AMC10/12 A&B (American Math Competitions for 8th and 10th grade students) – Our younger students have an option to write AMC8 & AMC10 contests.
7. Purple Comet Math Meet for Middle School - Open to the adventurous elementary students.
8. Gauss 7 & 8 (Canadian Math Competition for 7th and 8th grade) – All our middle grade students are eligible to participate in Gauss-7
9. Pascal & Fryer (Canadian Math Contest for 9th grade students) – Open to all middle grade students.
10. CIMC (Canadian Intermediate Math Contest for 9th grade students) – Open to all middle grade students.
11. HMMT (Harvard MIT Math Tournament), PUMaC (Princeton University Math Competition) and MMATHS (Math Majors of America Tournament) – for selected advance middle school and high school students.

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We realize that many of our students have an opportunity to compete in some of these competitions through their home schools. We require our students to compete with their home schools whenever they can. The students are eligible to write a math contest at ICAE only if their home school does not offer that contest. However, we need your help in reinforcing this policy. I want to thank you all for providing this information in past.

Following is a list of math contests offered at ICAE to the high school students (grades 9-12). We need your help in identifying the contests your students have an opportunity to participate in your school. **Please provide this information to the student on your school letterhead or communicate directly to me by e-mail (rkhetan@sbcglobal.net).**

List of Competitions at ICAE for students in Grades 9-12

1. COMC (Canadian Open Math Challenge) – Open to all eligible high school students.
2. ARML Power and ARML Local (National math contests for high school students) – Open to all high school students unable to participate from their home schools.
3. AMC10A, 10B, 12A & 12B (American Math Competitions for 10th and 12th grade students) – Open to all high school students unable to participate from their home schools. Students have an opportunity to advance to AIME & USAMO.
4. Pascal, Cayley, Fermat, Euclid (Canadian Math Contest for 9th – 12th grade students) and COMC (Canadian Open Math Challenge) – Open to all eligible high school students.
5. Fryer, Galois, & Hypatia (Canadian Math Contest for 9th – 11th grade students) – Open to all eligible high school students.
6. CIMC and CSMC (Canadian Math Contest for 9th – 12th grade students) – Open to all eligible high school students.
7. HMMT (Harvard MIT Math Tournament), PUMaC (Princeton University Math Competition) – for selected advance middle school and high school students.
8. MMATHS (Math Majors of America Tournament) – Annual contest for high school students at U of M Ann Arbor.

Sincerely,

Dr. Raghunath P. Khetan

Director, ICAE

ICAE Sponsored Math Contests for 2023-24

Permission letter from School is required for participation with ICAE

ICAE pays the fees for all current students. Guest students must pay the fees.

Team Contests are open only to the Math Club members.

Date	Day	Contest	Deadline	Place
9/28/2023	Thursday	CLMC	21-Sep	ICAE
10/21/2023	Saturday	ARML Power Fall	7-Oct	ICAE
10/26/2023	Thursday	COMC	12-Oct	ICAE
11/11/2023	Saturday	HMMT - November	28-Oct	Harvard
11/8/2023	Wednesday	AMC 10/12A	17-Sep	ICAE
11/14/2023	Tuesday	AMC 10/12B	24-Sep	ICAE
11/16/2023	Thursday	CJMC	28-Oct	ICAE
11/19/2023	Saturday	MOEMS - R1	12-Nov	ICAE
11/15/2023	Wednesday	CISMC	18-Oct	ICAE
12/16/2023	Saturday	MOEMS - R2	9-Dec	16-Dec
1/20/2024	Saturday	MOEMS - R3	13-Jan	20-Jan
1/20/2023	Saturday	AMC 8	15-Oct	ICAE
2/1/2024	Thursday	AIME I	25-Jan	ICAE
2/7/2024	Wednesday	AIME II	25-Jan	ICAE
2/17/2024	Saturday	MOEMS - R4	10-Feb	ICAE
2/17/2024	Saturday	HMMT-Feb	31-Jan	MIT
2/24/2024	Saturday	Winter ARML Power	10-Feb	ICAE
2/28/2024	Wednesday	Pascal (9th Grade)	4-Feb	ICAE
2/28/2024	Wednesday	Cayley (10th Grade)	4-Feb	ICAE
2/28/2024	Wednesday	Fermat (11th Grade)	4-Feb	ICAE
3/16/2024	Saturday	MOEMS - R5	9-Mar	ICAE
4/3/2024	Wednesday	Euclid (12th Grade)	4-Mar	ICAE
4/11/2024	Thursday	CTMC	31-Mar	ICAE
4/4/2024	Thursday	Fryer (9th Grade)	ICAE	ICAE
4/4/2024	Thursday	Galois (10th Grade)	ICAE	ICAE
4/4/2024	Thursday	Hypatia (11th Grade)	ICAE	ICAE
TBD	Wednesday	USAMO	ICAE	ICAE
TBD	Thursday	USAMO	ICAE	ICAE
4/6/2024	Thursday	Purple Comet	ICAE	ICAE
4/21/2024	Sunday	ARML Local	ICAE	ICAE
5/15/2024	Wednesday	Gauss 7 & 8	ICAE	ICAE

CLMC (Canadian Lynx Mathematical competition) is a 90 minutes long contest, consisting of 15 multiple-choice questions based on the grades 7-11 core curriculum. It is open to all all middle school and high school school students.

ARML Power is a **Team Contest** offered in Fall and again in Winter. ICAE will enter two teams in the contest. Teams will be made from the Math Club members.

COMC (Canadian Open Math Challenge) is a high school math contest offered by Canadian Mathematical Society. We recommend COMC to all eligible high school and advanced middle school (IIB and III) students.

HMMT (Harvard MIT Math Contest) is a **Team Contest** offered in November and February. ICAE has entered three teams for the november contest and one for the February contest. Teams will be made from the Math Club members. Acceptance from HMMT will be confirmed in October based on a lottery system.

AMC 10 and 12 are individual high school contests offered on Nov 10 and again on Nov 16. ICAE encourages advance middle school and high school students from non-participating schools to participate.

CJMC - Canadian Jay Mathematical competition is an individual middle school contest open to all middle school and advanced elementary school students. The CJMC is 90 minutes long, consisting of 15 multiple-choice questions based on the grades 5-8 curriculum.

MOEMS - Math Olympiad for Elementary and Middle Students is open to all elementary (Div-E) and middle school (Div-5) students. MOEMS is offered in five rounds during the year.

CISMC - Canadian Intermediate (grades 10 or below) and Senior (grades 11 and 12) are individual high school contests open to all advance middle school and high school students.

AMC 8 is for students in grades 6-8. ICAE offers AMC8 to elementary school students as well.

AIME and USAMO These are invitational contests. Students qualify for these based on AMC 10/12 and AIME scores.

AMC 8 is for students in grades 6-8. ICAE offers AMC8 to elementary school students as well.

PCF - Canadian Contests Pascal (grade 9 or below), **Cayley** (grade 10) and **Fermat** (grade 11) consist of 25 multiple choice problems worth 150 points. Pascal is open to all middle school and Math IB/II students.

FGH - Canadian Contests Fryer (grade 9 or below), **Galois** (grade 10) and **Hypatia** (grade 11) consist of 4 free response problems worth 40 points. Fryer is open to all middle school and Math IB/II students.

Euclid is a Canadian contest for grade 12 students. It consists of 8 free response problems worth 80 points. ICAE offers Euclid to all high school and Math IIB/III students.

CTMC (Canadian Team Math Contest) is a team contest for Math Club members. Teams will be formed based on Placement Test and team selection test scores..

Purple Comet is a Team contest for Junior and Senior Math Club members

Gauss-7 (grades 7 or below) and Gauss-8 are Canadian middle school contests consisting of 25 multiple choice problems worth 150 points.

ARML Local is a team contest open to Junior and Senior Math Club members