

**PREVIEW of
GAA High School
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2017-2018

Who is the GAA Graduate?

- A critical thinker and problem-solver
- A skilled Collaborator
- A Risk-taker
- Internationally minded
- A kind and empathetic young man or woman
- Balanced
- A good human being



Topics

- New Secondary Vice-Principal
- Separation of Middle grades and High School
- Facility Upgrades
- Major emphasis on college readiness
- IB Updates
- MS Language Arts curriculum updates

New Secondary Vice-Principal



Kain Klinkhammer, Secondary Vice-Principal Kain will be joining us from Cairo where he has been for the last 8 years. Kain brings a wealth of experience in both the American Curriculum and IB. He holds a Bachelor's Degree in English Education and a Master's in Journalism/Mass Communications. Kain taught English, psychology, IB English and IB ToK. He has coached and participated in wrestling for many years and is also a member of the South Dakota Wrestling Hall of Fame. Welcome Kain!

Secondary Library/IB Lounge/MS Commons

- A new library dedicated to the Secondary Division will be located in the current IB Lounge
- MS students will have a dedicated Commons area

College Readiness

- College discussion will begin in grade 9
- Parent Question and Answer forums throughout grade 9-12
- Options for university
- How to research colleges and universities in various parts of the world
- A dedicated college resource room

GAA Focuses on North American and UK Universities

Math Department Team

High School Teaching Team

- Ms. Kelli Baker
- Mr. Michael Palano
- Mr. Ataa Addo
- Ms. Farah Sami

Secondary Mathematics Coordinator

Ms. Farah Sami

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Secondary Curriculum Coordinator

Ms. Jen Parker

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IB Updates

- Intentional Placement Decisions
- Grade 11 orientation
- Dedicated Extended Essay Advisor
- Dedicated Self-Taught Advisor
- Addition of the “CORE” class
- Encouragement for each student to try an IB course

Mr. Donald Caldwell, IB Coordinator

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GAA Math Curriculum

Based on

American Education Reaches Out (AERO) Common Core Plus

standards of learning

and the International Baccalaureate Diploma Programme
(IBDP)

GAA Math Curriculum

Our curriculum is considered an accelerated pathway
to prepare students for success in IBDP

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Why the Integrated Mathematics Pathway ?

Rationale Behind Integrated Math

- Seeing mathematics as a coherent whole
- Opportunities for connections across the units is enhanced in the integrated approach
- The IBDP Math curriculum also uses an integrated approach.
- Number and Quantity, Algebra, Functions, Modelling, Geometry, and Statistics and Probability

What is the same between the two pathways?

- All three courses in both pathways include the same content standards.
- Across the three courses, students in the traditional pathway study the same content as students in the integrated pathway.
- In other words, the students have the same entry and exit point.
- Additionally, there is focus on mathematical modeling in both pathways.

What is different about the two pathways?

- The difference in the two pathways is how the standards are organized into the three courses.
 - In the traditional pathway, the geometry conceptual category is its own course. In the integrated pathway, there are geometry standards present in all three courses.
- The integrated pathway intends for connections across all conceptual categories to be made, as standards from all categories are present in each of the three courses.

What happens when students enter from a traditional pathway?

- If a student has earned credit in Algebra I and comes to GAA, that student would be placed in Integrated Math II.
 - The Algebra I credit will act as the Integrated Math I credit.
- If a student enters in the middle of the year from one pathway to the other, the student should be placed in the appropriate course.
 - For example, if a student enters from a traditional pathway school and is taking Algebra II in the middle of the year, he/she would be placed in Integrated Math III.
- Teachers will support these students just as they do when any student enters and there are differences in pacing, pathways, curricular materials, etc.

Other Questions...

Which teachers are qualified to teach in the integrated pathway?

The qualifications necessary to teach courses in the integrated pathway are the same as those on the traditional pathway.

Are there be textbooks for the integrated pathway?

Yes, we have adopted the Holt McDougal Integrated Mathematics Series and will have other resources to support implementation of the integrated pathway.

Can students be accelerated in the integrated pathway?

Yes, students may take Integrated Math I in middle school as Honors or Regular.

Will post-secondary institutions recognize the integrated pathway?

Yes, the content across the three courses in both pathways is the same. Universities will recognize a GAA

Honors Classes

Beginning in the 17-18 school year, students in grades 7, 8, 9 & 10 will have the opportunity to take Honors level classes in Math and English.

Placement in Honors classes will be based on the history of MAPS RIT scores, semester grades, and teacher recommendation.

Secondary Math at GAA Pathways 2017/2018

	<u>Honors</u>	<u>Regular</u>
Grade 6	Integrated Math 6	Integrated Math 6
Grade 7	Integrated Math 7 Honors	Integrated Math 7
Grade 8	Integrated Math I Honors	Integrated Math I
Grade 9	Integrated Math II Honors	Integrated Math II
Grade 10	Pre-Calculus	Algebra 2
Grade 11/12	IBDP - HL/SL	IBDP - HL/SL/Studies or Non IB: Statistics or Math Foundations

2018 Onwards

Grade 6

Integrated Math
6

Grade 7

Integrated Math
7

Integrated Math
7 Honors

Grade 8

Integrated Math
I

Integrated Math
I Honors

Grade 9

Integrated Math
II

Integrated Math
II Honors

Grade
10

Integrated Math
III

Integrated Math
III Honors

Grade
11 & 12

Statistics

Advanced
Quantitative
Reasoning

IBDP Math
Studies SL

IBDP Math SL

IBDP Math HL

Math in grades 11 & 12

IBDP

- Standard Level
Mathematical Studies
- Standard Level Mathematics
- Higher Level Mathematics

Non-DP

- Algebra 2
- Functions and Statistics Applications
- Mathematical Analysis
- Math Foundations
- PreCalculus
- Calculus

Calculator Policy

- All students in Math integrated II onwards are required to have an approved graphing display calculator.
 - TI - Nspire (non CAS).
- The use of calculators is determined by the teacher/ nature of the problems.

Thank You