

WORKING HARD

IB math students work on and present their internal assessments for the semester

1 WORKING HARD Sitting at her desk, senior Morgan Parker works on her laptop. Parker had taken IB math mainly because she was on senior schedule, and IB math fulfilled her academic honors requirement. "The main difference [compared to AP math] would probably be that IB math is more self guided, and you have to do things on your own more and teach yourself, but once you get the hang of it it gets easier," Parker said. *S. Sajan photo*

2 LAUGH IT OUT Working hard on their final project for the semester, junior Nick Katsis works to find out how his topic relates to math in the world. He enjoyed the skills that IB math gave him and loved being able to use the information outside of school. "There is a whole internal assessment where we got to choose a topic, research and write about how your math applies to it," Katsis said. *S. Sajan photo*

3 ARE YOU LISTENING TO HARRY STYLES Listening to music on her AirPods, senior Delaney Kibler practices her presentation. Kibler had been researching the best place to live in as a theatre director, between Chicago and New York. "I took data from theatre companies opening throughout the past twenty years, the number of shows, and then price inflation, apartment rental prices, to see if that was increasing or declining," Kibler said. *S. Sajan photo*

4 STAY HYDRATED Looking towards her friends, senior Korrin Reichard plays around with her bottle of sparkling water. Reichard's project at that time was with Aggressively Organic, during which she and her group researched the marketing side of business. "My project ended up being about how well social media marketing actually works and what demographics you should target towards, and if you're targeting towards a certain demographic, what platform you should use," Reichard said. *S. Sajan photo*

5 LOOK UP Holding a sheet of paper, senior Morgan Croaning looks over at her classmates across the room. Croaning felt that IB math was different because it was more self-learning than in other classes. "My paper was about if school start times affect test grades and attendance, and I was looking at if schools that moved their start times to after eight o' clock had better test grades than the schools that started before eight o' clock," Croaning said. *S. Sajan photo*



THAT'S SO META

What is metacognition?

An awareness of one's thinking and learning style and oneself as a thinker and learner.

Why would you use it?

To increase one's abilities to transfer or adapt their learning to new contexts and tasks.

Source: vanderbilt.edu

Metacognition in class

"IB is a very independent class, so you have to use your time wisely and understand what you need to get done, and that can be very stressful with IB courses. By planning out what you're going to do in class and taking it one step at a time, it helps with your mental health alot."

-ABBY KAUFMAN, 12

Metacognition outside of class

"We take our notes outside of class, so it allows us to reflect on what issues we're having outside of school. If we have any problems in class, our teachers help us out there, and then we're getting all the information beforehand. It really gives us an opportunity to ask questions if we need to and makes it really accessible if you have any trouble analyzing."

-NICK KATSI, 11

senior Abby Kaufman and junior Nick Katsis discuss how they use metacognition

WHAT'S THE DIFFERENCE ?

IB math students compare the IB and AP math curriculum

For IB math you can learn a lot of projects, it's more word based and more international based. There are so many projects. Right now, I'm doing the relationship between the unemployment rate and another factor. The other factor is what governments are doing right now, and we have to solve it using math equations."

-TAKERU SHISHIKURA, 12

I decided to take IB math because it's part of the curriculum private diploma. But additionally, it's a different learning style for math and the chapters don't accumulate on one another. So every lesson is a different chapter and a different concept. And it helps you look more into the big picture of how math is interpreted in the world."

-RUBY SANDERS, 12

IB math is very different from most traditional math courses in that our math is very real world. We do a lot of stuff about data and statistics and how we analyze those, and we are also taught how to use the functions of our calculator rather than just being expected to memorize formulas."

-JOHN MICKUKI, 12

I think the only real difference between an AP and an IB is that IB is more of a self study, and AP you have someone actually teaching you. We work out of a workbook, but it's really good at explaining what you need to do, and there's plenty of examples. It also helps you with keeping track of yourself and self discipline. It's very interesting, and it's not necessarily hard, but there is a lot."

-BELLA HAUSER, 11

I like the IB philosophy of really understanding the process of what you're doing in math, and it helps everything make more sense. AP math is a lot faster paced and more about breath than depth, so there's a lot more content, but you don't go as deep into it. IB is kind of the opposite of that. Going into it and learning about why things work and learning more into the processes of math helps everything to make more sense."

-BENNETT RING, 12

IB math is a different way to challenge yourself and learn multiple topics. It gives a different perspective on a well-rounded education. IB is more focused on the "why" and what an outcome means, and AP is more focused on the outcome. It is a different way of thinking and if there is an area that you are interested in, you can dig into that area and see how math may or may not apply to your field of interest."

-PAIGE WEHR, FACULTY

CREATIVE MINDS

seniors Caroline Vandever and Gavin Daniels work on projects that help them grow on a metacognitive scale

CREATE:

Produce new or original work

EVALUATE:

Justify a stand or decision

ANALYZE:

Draw connections among ideas

APPLY:

Use information in new situations

UNDERSTAND:

Explain ideas or concepts

REMEMBER:

Recall facts and basic concepts

"I'm working on looking at the relationship between the inflation rate and consumer price index, and how that affects consumer budgeting."

"I do have to draw a lot of connections among ideas. I have to take different ideas or entities, and talk about how they relate to one another."

"I have to do a lot of explaining of ideas and concepts considering it's something that I myself haven't explored in depth."

CAROLINE VANDEVEER, 12

"I'm studying how long it would take to recover the great green macaw population in Costa Rica, while also factoring in the loss from pineapple plantations."

"I wanted to pursue the IB diploma because they focus on all aspects of school, and so it makes all of the subjects a strength for you."

"IB is really open ended. We focus on how we know things and why we know things and what we know. IB looks at a couple things, but really in depth."

GAVIN DANIELS, 12

294 academics

ib math 295

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