

#dragons

New Innovations at Jakarta Intercultural School

NAGA NAGA NAGA!!!



CHEMISTRY + COMP SCI?

Every Science Student
Learns to Code

HS

VIRTUAL WORLDS & FANTASY FICTION COME ALIVE

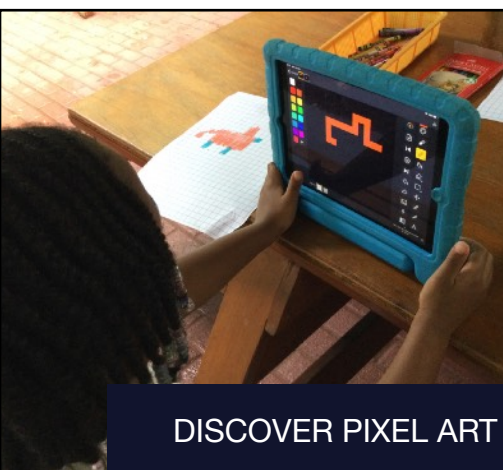
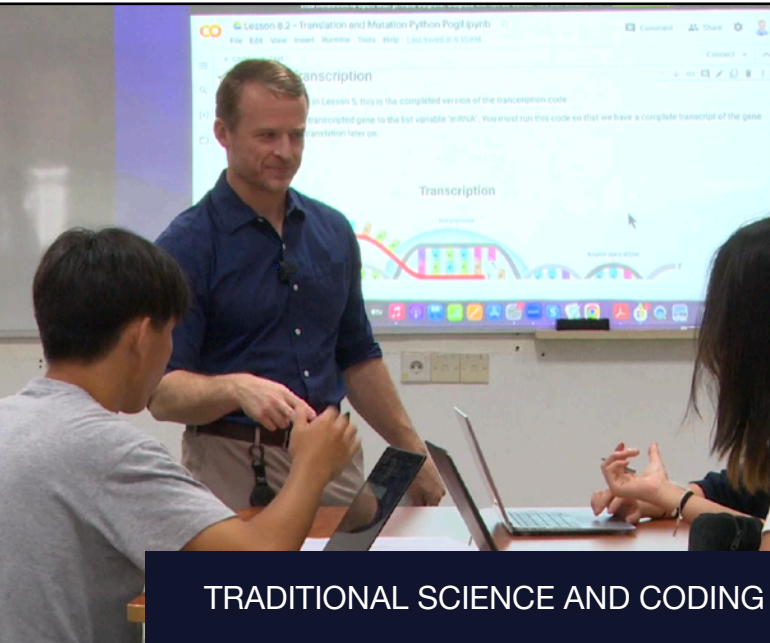
ES

JIS STUDIO, SERVICE, AND. THE J.L.C.

Connections, Problem Solving,
Inclusivity, and More

HS/MS

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Be sure to check out the
#dragons: New Innovations at
Jakarta Intercultural School
video journal.



Coding & Science

REIMAGINING TRADITIONAL SCIENCE COURSES WITH CODING

Jakarta Intercultural School science teachers are shaking things up this year by expanding courses beyond the traditional subject areas. Starting in ninth grade, all students spend their first month of Integrated Science class digging into computer science and coding. Tenth graders aren't left out; they spend the first few weeks of their course reviewing fundamentals to keep their coding skills sharp. Do note this isn't coding for coding's sake. They're using these techie skills to tackle real-world science, like modeling how bacteria multiply or decoding the genetic information in DNA.



HOKEUN & CHANGYOUNG

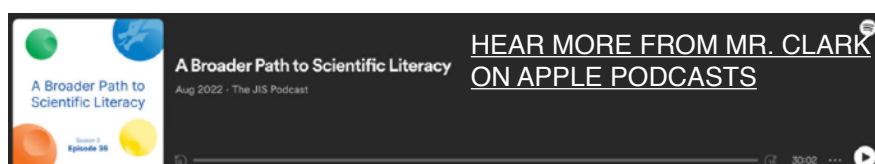
JIS CLASS OF 2027

"We both enjoy the challenge of coding. It for sure makes real world challenges more interesting and fun."

"We focus on getting the basic skills of coding... We do a lot of computational models of science. How does exponential growth of bacteria work or how does DNA transcription translation work? We model it with coding." -Jeff Clark, HS Science

The science team decided unanimously that everyone should know a bit about computer science, whether they are planning a career in Silicon Valley or not. So they've weaved it into all the science subjects taught in ninth and tenth grade—biology, chemistry, physics, and environmental science. Mr. Jeff Clark, Science Department Chair, elaborates: "If we're going to build a breadth of foundation to prepare students for any of the sciences, computer science had to be included in the integrated science coursework. We want to make sure that no matter what job one ends up in, they know their way around a computer."

Before bringing coding to their students, most of the science teachers required a crash course in programming, too. Our amazing computer science teachers led the team through a number of online courses so they could teach fundamentals. The school aims to keep up with how fast technology is changing our world. Mr. Clark comments, "For me, one of the most powerful aspects of ensuring everyone has some coding is to demystify technology. They think computers are magic. They don't know what they can and can't do. If you can understand the fundamental structure of a language, then you can say, Oh, it's just if-then statements. It's just loops. The logic is not magic. It's actually rather constricted. When students get that it really helps then help with the computational modeling in all the sciences."



EVERYTHING ONE NEEDS TO KNOW ABOUT JIS STUDIO

Studio represents a holistic and innovative educational approach that prioritizes flexibility, integrated learning, and real-world application. By allowing students to engage deeply with projects that connect across disciplines and solve authentic problems, Studio aims to prepare students not just academically but also as critical thinkers and problem-solvers in a real-world context.

01 Cohort-Based Learning

Studio groups a class of students who follow the same curriculum as their peers but with a unique twist. They spend 20 percent of their time on a collaborative project, blending different grade levels and encouraging them to operate like a business, with departments and teams creating a public product or event.

04 Technology Integration

Studio leverages technology, particularly Apple products, to facilitate learning and project work. For example, students use Numbers spreadsheet software for data analysis and create presentations using Keynote. This reflects the program's commitment to integrating technology in education.

02 Flexibility and Integration

Because the students are with the same teachers for multiple subjects, there's more scheduling flexibility. This allows for extended blocks of project time, easier organization of guest speakers and field trips, and a more integrated approach to learning. For instance, if a significant project is upcoming, teachers can dedicate an entire morning to it, something not feasible in a conventional classroom setting.

05 Project-Based Learning

Chris Calvert, a Studio humanities teacher, is very proud of the collaborative projects his students have tackled. An example is a semester-long oral history project where students interviewed various adults on campus about their middle school experiences. These interviews were turned into mini podcast episodes, complete with a custom jingle and cover art, created by the students in various specialized teams like editing, event planning, and 3D printing.

03 Real-World Applications & Data Analysis

Another aspect of Studio is its emphasis on solving real-world problems through projects like analyzing the school library's circulation data. Students were given actual data sets to analyze with Numbers spreadsheets and used their findings to make recommendations to improve the library. This project not only provided practical experience in data analysis but also had a real impact on the library's operations.

06 Educational Philosophy

The underlying philosophy of Studio is to go beyond traditional teaching and assessments; it aims to apply learned knowledge to the world outside the classroom. This is evidenced by projects like the library data analysis, where students had to mine data, identify trends, and present actionable insights.

Learn More About JIS Studio



Apple Podcasts



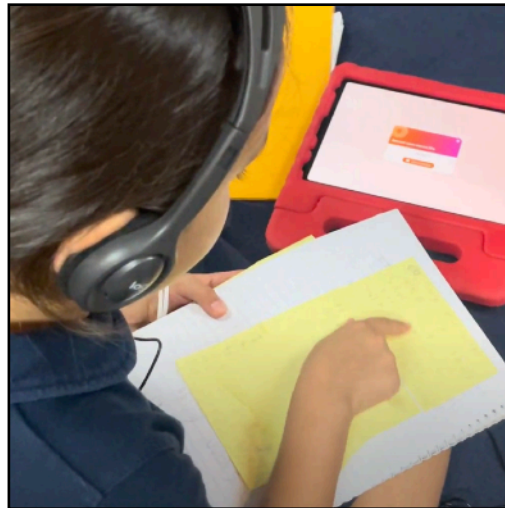
Welcome to JIS Studio

Fantasy Writing in Fourth Grade

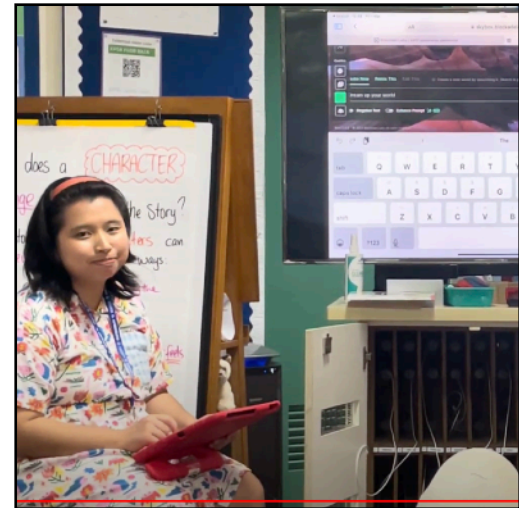
Leveraging Technology to Unlock Young Writers' Imaginations



Ms. Mindy Slaughter, Digital Learning Coach, expands yet another mind.



A fourth grader recording her fantasy story into her viral world.



Ms. Hanna Christina, Digital Learning Coach, inspiring students.

AUTHORS GET
INSPIRATION FROM
THE REAL WORLD TO
MAKE THEIR STORY
SETTINGS VIBRANT.
WE THOUGHT IT
WOULD BE COOL FOR
STUDENTS TO HAVE
THAT SAME
EXPERIENCE IN THEIR
VIRTUAL FANTASY
WORLDS.

In a fun creative writing project, fourth graders discovered how to write fantasy stories in a new way by using technology. They had a workshop that gave them the idea to use virtual reality (VR) and artificial intelligence (AI) to make three-dimensional virtual worlds for their stories. Armed with their iPads, they practiced and experimented by making simple scenes, but soon, their skills increased to where they could design awesome places that illustrated the settings in their fantasy stories. In turn, these digital worlds became a tool that enabled students to revise their writing for details and to make their settings come alive. Ms. Mindy Slaughter, Pondok Indah Elementary School Digital Literacy Coach, loved the results. She explains, "It is easy to use VR as a fun gimmick, and it sometimes does not lend itself to a truly creative process and was simply students making something 3D. Honestly the work with VR didn't really add much to the learning. This time, I could really see the students using their iPads and VR to actually create something meaningful. They then could discover places in their stories that needed revision to be as vibrant as the digital world on their iPad." Upon completing the project, students celebrated by sharing their stories and virtual worlds with their peers and families.

Service Learning

11th Grade Lead Week

Empowering Our Amazing Service Partners

LEAD Week is the high school's special project week, where all students engage in different leadership and challenge activities. Beginning in 2023, our junior class spent the week collaborating to help local service groups build their online presence. These grassroots organizations do amazing work helping others but often do not have the resources or expertise to create websites or media to drive traffic and/or resources to their services. The JIS juniors wanted to help these groups have a solid online voice on social media and/or build them beautiful websites worthy of the good they bring to our community. After taking the time to connect, collaborate, and really understand the work of these organizations, students rolled up their sleeves and got busy making websites, social media posts, and short videos.

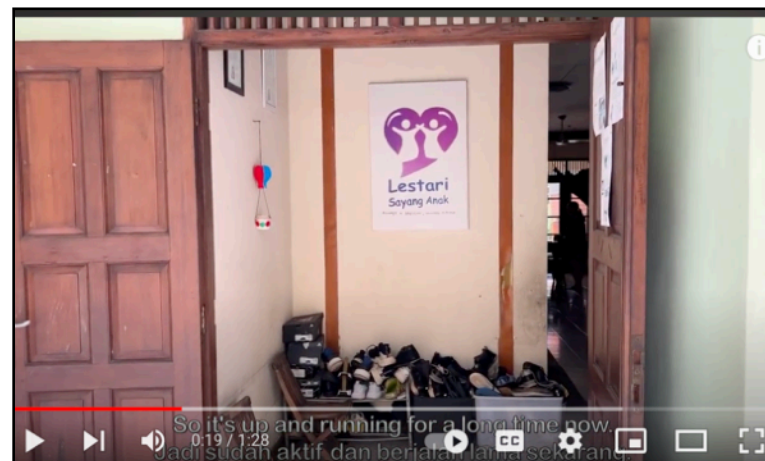
Julie Richards, the High School Service Learning Coordinator, explains that students used free software to build websites and social media posts. When complete, they handed over the passwords and files to the organizations allowing them to manage their new online presence. This year, current JIS juniors will keep the momentum afloat by updating, revising, and even creating new media for the websites and social media pages. Ms. Richards notes, "Some of the groups are thrilled with their new online buzz. Honestly, at first, students weren't too sure about this project, but now they're really into it. It's real work helping real people. It is a win-win for everyone involved."



SLB Ulaka Penca



Mahkota Kasih Insani



Yayasan Lestari Sayang Anak

Pixel Art, iPads, and Early Years Learners

iPads Ignite Excitement as Learners Explore Shapes, Patterns, and Colors



One of Mr. Jason Graham's favorite projects with Pattimura Elementary School Early Years students is exploring pixel art with iPads. The Digital Learning Coach provides the EY kids with an interactive approach to exploring colors, shapes, and patterns. He starts the children by drawing on graph paper to add various objects like animals, houses, boats, or rocket ships, only using squares. They then transition these drawings to digital format on their iPads. This allows the children to convert their paper drawings into digital pixel art. The children can even animate their drawings by adding scenes or pages, turning simple drawings into dynamic stories. Mr. Graham highlights the educational benefits of blending traditional and digital tools, "I enjoy watching them learn how to take what we do in analog and turn it into something digital. It helps them think about spatial patterns and awareness rather than just doing drawings. They needed to actually think about if this looks too big or if theirs is three pixels or three spaces. They love that challenge and combining it with their creative art work."



JIS Learning Center

Pathways for Every Student

One of the newest programs at JIS is the JIS Learning Center (JLC). It is a specialized program that caters to students with moderate to significant learning needs. This unique curriculum not only covers conventional subjects like reading, writing, and mathematics, but also emphasizes crucial life skills such as adaptive and daily living abilities, social interaction, and independence. Each student's educational journey is unique and crafted to an Individualized Learning Plan (ILP), ensuring a deeply personalized learning experience. Ms. Emily Simbana, a JIS Learning Center teacher, adds, "We create a curriculum that is individualized for the student due to a variety of different needs or diagnoses that they may have, which allows them to get ready and prepared for life beyond school. That could be a vocational program or a certificate program. But the keyword that we always try to work on with our students is independence. We want to build as much independence in their lives so that they can go out and be as independent a citizen as they possibly can."

The JLC offers small class sizes, with no more than eight students and a maximum teacher-to-student ratio of one teacher to four students. This setting minimizes distractions and maximizes personal growth, allowing detailed attention to each student's strengths and challenges. Students are also integrated into mainstream classes as determined by their ILPs, which provides valuable,



A JLC Classroom, with Apple TV, iPads, and More.

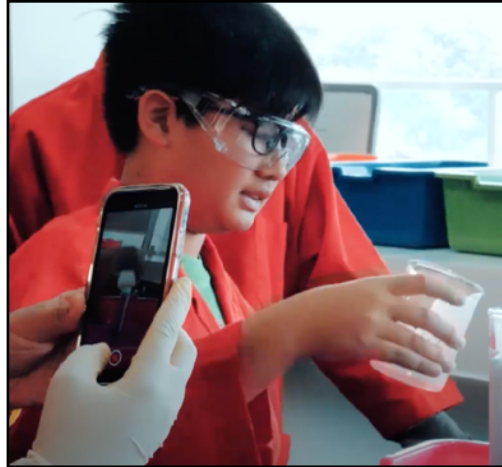
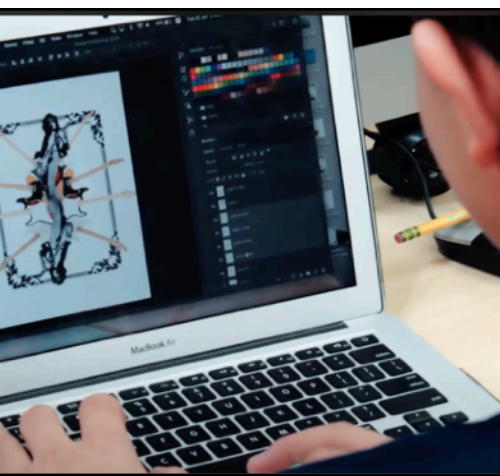


THE JLC Creates Excitement Throughout Jakarta



THE JIS LEARNING CENTER HELPS US ALL WITH UNDERSTANDING. IT HELPS WITH APPROPRIATE LANGUAGE AND WITH MORE EDUCATION FOR THE ENTIRE COMMUNITY.

Learn More About the JLC on Apple Podcasts



RESOURCEFUL
RESILIENT
RELATING
REFLECTIVE



Our Mission and Vision guide everything that we do from how we learn to the dispositions that JIS students gain while at our school.

- We are passionate, inquisitive and creative – learning in Indonesia to be best for the world.
- We value perseverance, integrity, responsibility, respect, compassion, balance and fun.
- We will inspire joyful, rigorous learning and foster wellness as a pioneering, inclusive, and collaborative community.
- We learn by reflecting and relating, by being resourceful and resilient.

At JIS, we prepare students from across the globe to be best in what they aspire for and at the same time, be best for the world they live in.

Special Thanks to:

- Matthew Schafer - High School Librarian and Technology Specialist
- Mindy Slaughter - PIE Digital Learning Coach
- Jason Graham - PEL Digital Learning Coach
- Chris Calvert - JIS Studio Teacher.
- Kelsey Hedrick - Middle School Librarian
- Julie Richards - HS Service Learning Coordinator
- Emily Simbana - JIS Learning Center
- Didik Julianto - JIS Audiovisual
- Lauren Biegert - HS English



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