Instructional Technology Planning

Irvington High School:
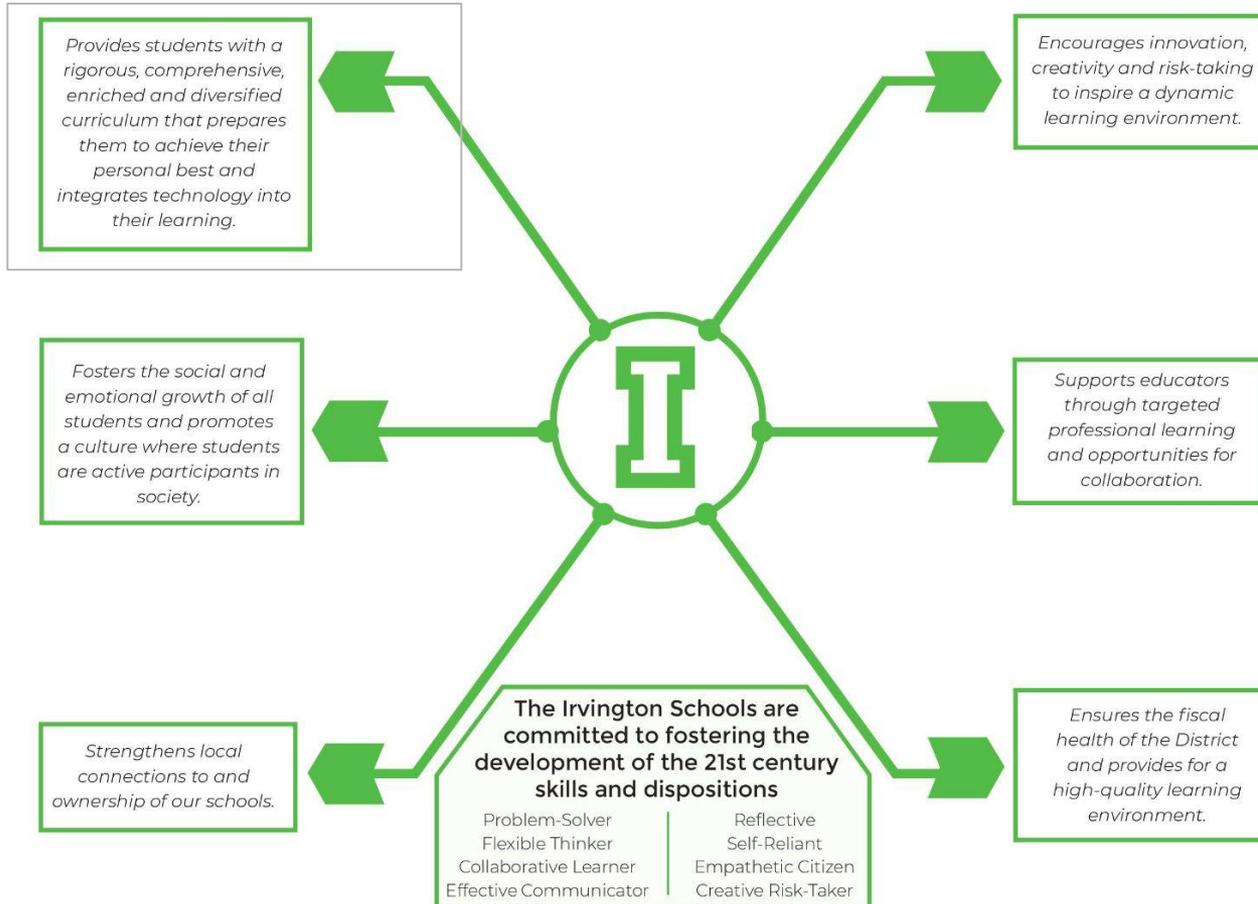## *The Future of 1:1 Devices*
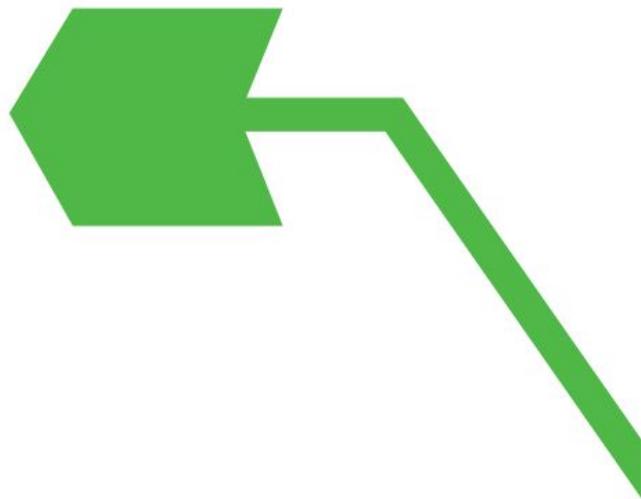
Board of Education Meeting
August 4, 2021

Mission

The mission of the Irvington Union Free School District is to create a challenging and supportive learning environment in which each student attains his or her highest potential for academic achievement, critical thinking and lifelong learning. Our schools encourage the discovery and development of students' individual strengths, skills and talents, and foster social and civic responsibility.

The **Irvington Strategic Objectives** serve as a foundation for all aspects of District and Board of Education work. Critical decision making such as budgeting, program development and facility enhancement is aligned with the District Mission and Strategic Objectives. To achieve its mission and vision, and to provide for the future of its students, the Irvington Union Free School District:

Provides students with a rigorous, comprehensive, enriched and diversified curriculum that prepares them to achieve their personal best and integrates technology into their learning.

Encourages innovation, creativity and risk-taking to inspire a dynamic learning environment.

Fosters the social and emotional growth of all students and promotes a culture where students are active participants in society.

Supports educators through targeted professional learning and opportunities for collaboration.

Strengthens local connections to and ownership of our schools.

Ensures the fiscal health of the District and provides for a high-quality learning environment.

The Irvington Schools are committed to fostering the development of the 21st century skills and dispositions

Problem-Solver
Flexible Thinker
Collaborative Learner
Effective Communicator

Reflective
Self-Reliant
Empathetic Citizen
Creative Risk-Taker

Provides students with a rigorous, comprehensive, enriched and diversified curriculum that prepares them to achieve their personal best and integrates technology into their learning.

Where are we?

As Discussed at the May 25th Board of Education meeting:

- All students and staff were provided with the opportunity to use Chromebook during the COVID quarantine and the return to school, Fall 2020-June 2021.

- Wi-Fi was upgraded District-wide to support increased connectivity across all campuses including outdoor WiFi that is presently being installed.

- Jetpacks were provided based on need.

- A multitude of technological resources were introduced to support teaching and learning.

- Significant professional learning has been provided to all teachers to support responsible use of instructional technology.

- IMS students have learned in a 1:1 Chromebook environment since 2019-20.

How does 1:1 benefit teaching and learning?

- Allows for equal access to devices at any time within the classroom environment.
  - No need to book carts or reserve devices or labs to ensure a class set.

- At-home access to devices that are designated for learning purposes, including appropriate filtering and Wi-Fi access provided based on need.

- Devices can be used for content creation using the suite of Google tools (Workspace for Education), as well as the Adobe and Microsoft suites of tools.
  - Other tools may work within a web environment including graphic arts, movie creation, design, and many other Web 2.0 tools.

- Devices can be used for student engagement, collaboration, participation, and feedback.
  - For example - Flipgrid, Padlet, Google Docs, Google Jamboard.

How does learning look/feel?

- Technology has shifted how teaching/learning looks in our classrooms.

- Technology also has the ability to help enhance learning, differentiate and offer different modes of engagement for students which allow for greater flexibility!
  - Will continue to foster collaboration utilizing many of the tools we used during the pandemic.
  - Will continue to provide student access to the global community/view/perspectives.

- Devices will continue to be used to supplement classroom instruction.
  - Allows for personalized learning to take place based at student pace.
  - Teachers can flip instruction using station rotation.
  - Blended learning does not mean everyone is concurrently learning on a device.

School leadership to support and monitor use

- Ongoing professional learning/building upon the foundation created over the last school year.
  - Coaching
  - Modeling of lessons/strategies
  - EdCamp
  - Vendor-led presentations

- Observation process

- Monitor use/screen time

- Evaluate best devices for high school use and present recommendations to inform 2022-23 budget development process.

Why a Chromebook?

Chromebook use in the K-12 arena has become common place due to:

- Supporting equality and access for students.

- Chromebooks are more commonly being used in a shift away from PCs and Macs where setup costs, integration issues, and overall replacement/repair costs are higher.

- A Chromebook is beneficial in the area of security.
  - District applications and filtering can more easily prevent malware and other harmful viruses.

- The use of Chromebooks satisfies most curricular needs.

Having appropriate technology to support teaching and learning...

Where curriculum and learning needs require specialized devices at IHS, the District will provide them in:

- Photography
  - iMacs will be updated this year to replace end of life devices.

- Science Research/Physics
  - Laptops will be updated this year for use with existing legacy probes.

- Graphic Design
  - iMacs can be used here as well, and may be able to extend the lives of our current lab by adding them to Art classrooms for limited use cases.

- Architecture and Engineering
  - Devices will be upgraded/added to the PLTW classrooms.

- iPads are provided to support ENL services.

The District will assess needs and identify the optimal devices for the high school environment by January and recommend a model moving forward

1:1 Chromebook History

In the 2019-20 school year, the District introduced a 1:1 Chromebook initiative in the Irvington Middle School:

- If the IMS initiative was to have expanded as the student progressed through the District, it would have reached the 10th grade in September.

- At that time, the rising 10th graders were in the 8th grade, and the 9th graders were in 7th grade.

- Discussion was had at the BOE level about expanding the initiative in preparation for the 2019-20 school year, but was placed on hold to have more experience in the initiative.

- Due to the pandemic, the 1:1 experience shifted to District-wide 2020-21.

2020-21 Chromebook Usage Data

During the 2020-2021 school year, the following number of Chromebooks were distributed to students:

- 8th Grade: 153
- 9th Grade: 80 (~60%) 131
- 10th Grade: 42
- 11th Grade: 48
- 12th Grade: 33

Total Chromebooks Distributed to HS Students: 203

The Initial Irvington High School 1:1 Plan

Based on the May 25, 2021 BOE meeting, the initial plan for device use at IHS was to:

- Eliminate the Bring Your Own Device (BYOD) option
- Transition to 1:1 Chromebook use in grades 9-12

Based on feedback from the school community, the administration is proposing a modified, phased-in approach to device usage at IHS.

The Revised Irvington High School 1:1 Plan

Considering community feedback a phased-in approach is now being considered for IHS:

2021-22 School Year

Grades 9 & 10:   1:1 District-owned Chromebooks only - no BYOD option

Grades 11 & 12:   1:1 District-owned Chromebooks - BYOD optional

Note: The District cannot support personal devices. Should a personal device being used under BYOD fail, a loaner Chromebook will not be provided.

Rationale: Students who will be in grade 9 and 10 have participated in the IMS 1:1 initiative. The majority (60%) of those students entering grade 10 utilized District-owned Chromebooks albeit one year delayed. Thus, this rollout will be an expansion of the IMS initiative expanding one grade per year.

The Revised Irvington High School 1:1 Plan

2022-23 School Year

Grades 9, 10 & **11**:   1:1 District-owned Chromebooks only - no BYOD option

Grade 12 only: 1:1 District-owned Chromebooks - BYOD optional

2023-24 School Year

Grades 9, 10, 11 & **12**:   1:1 District-owned Chromebooks only - no BYOD option

The District will not support personal devices. Should a personal device being used under BYOD fail, a loaner Chromebook will not be provided.

Other related, important details

How will charging needs be met?
- Charging stations will be available in the cafeteria (2), atrium, and library (2).
- A charging tub will be placed in each classroom - can charge up to 5 devices at once.
- An extra powerstrip will be installed in each classroom allowing for 5+ devices to be charged at once.

Can students who prefer to use a personal device at home be able to stow their assigned Chromebook at school?
- Students who choose not to bring District-owned Chromebooks home will be able to store them in their lockers; however, the need will remain for devices to be fully charged.
- Additional storage devices would be logistically and financially prohibitive.

Will any Board of Education policies need to be revised?
- 4526 Computer Use in Instruction (Acceptable Use Policy)
- 5695.1-R Bring Your Own Device (BYOD)

Project Timeline

Effective communication and opportunities for feedback will be offered to provide for well-informed decision making and planning:

- Parent/student virtual open sessions to collect feedback and answer questions will be conducted by the school administration on August 18th at 10:00 am and 7:00 pm to help inform planning and implementation.

- Formal virtual community forum will be hosted on August 23rd at 7:00 pm to introduce the IHS plan and answer questions.

- Explicit written communication will be sent on August 24th that will outline all related details.

?? Questions ??