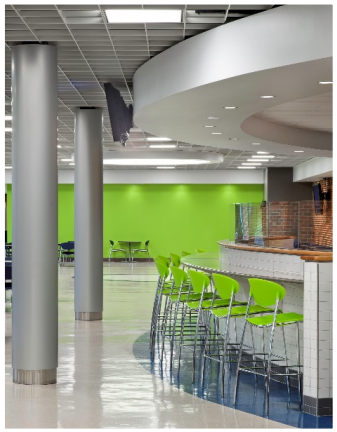
Every student, every day…

KG+D

listen imagine build



Briarcliff Manor Union Free School District

Superintendent's Capital Plan Recommendation

Presented to the Board of Education

September 13, 2018

Tonight's Roadmap:

- Where we have been / Where we are going
- Next *(This)* Generation Learning Standards
- Review of the Conceptual Plan
- Why this Project? / Why Now?
- Budget Implications
- Next Steps

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Long Range Planning Committee's Three Essential Goals:

1. To provide students with ***safe, secure learning environments befitting the next generation* of *Briarcliff students***

2. Address critical infrastructure and learning ***spaces not significantly altered since their original date of construction*** (Todd - 1955 & 1963; High School - 1970)

3. Attend to capital needs, including facility upgrades without increasing annual budgets and, hence, ***no increase to the tax levy beyond current levels***

KG+D listen imagine build

1955 Studebaker

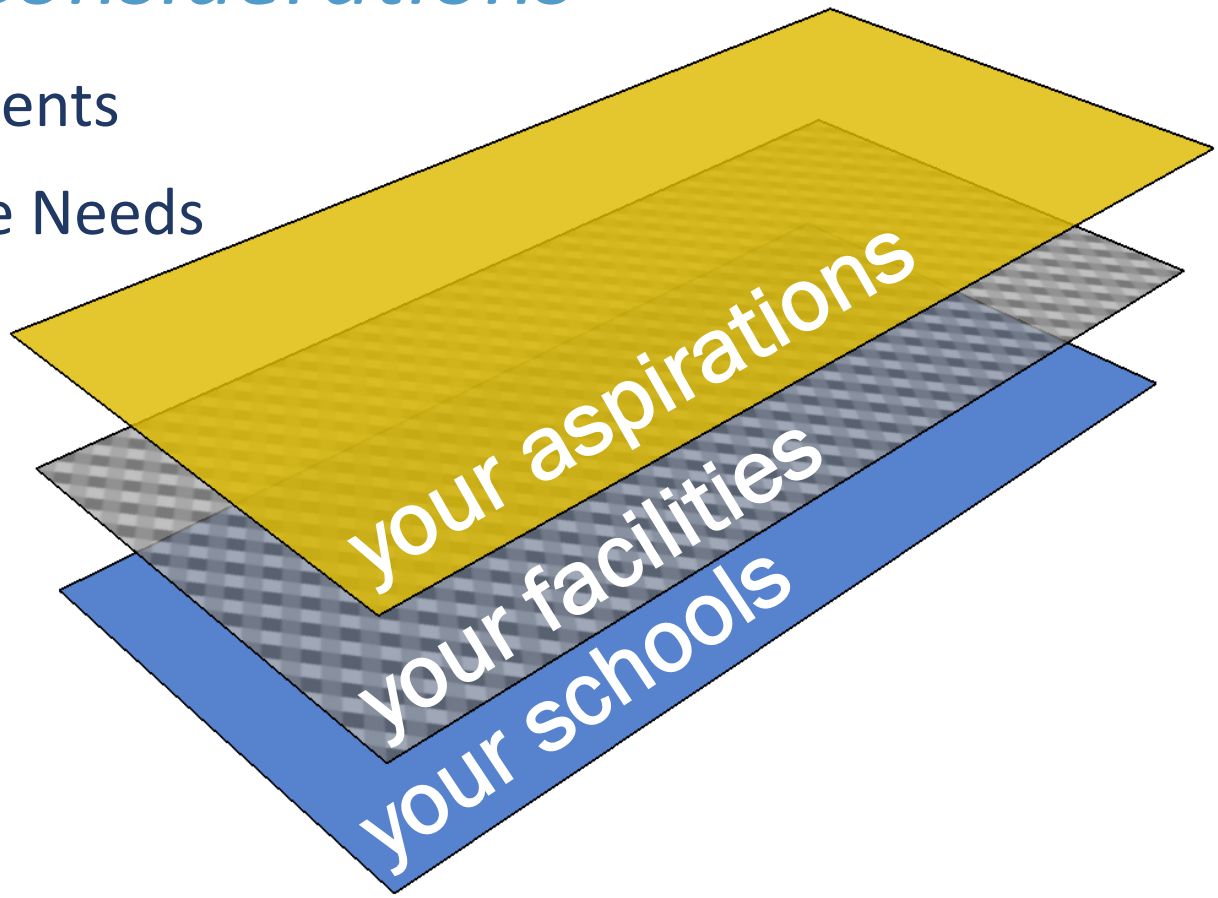
1971 Continental

2018 Grocery Store!

KG+D listen imagine build

Facility Planning Considerations

- ✓ Accommodate Enrollments
- ✓ Prioritize Infrastructure Needs
- ✓ Support Curriculum
- ✓ Facilitate Instruction
- ✓ Welcome Community
- ✓ Enable Change
- ✓ Inspire Learners!



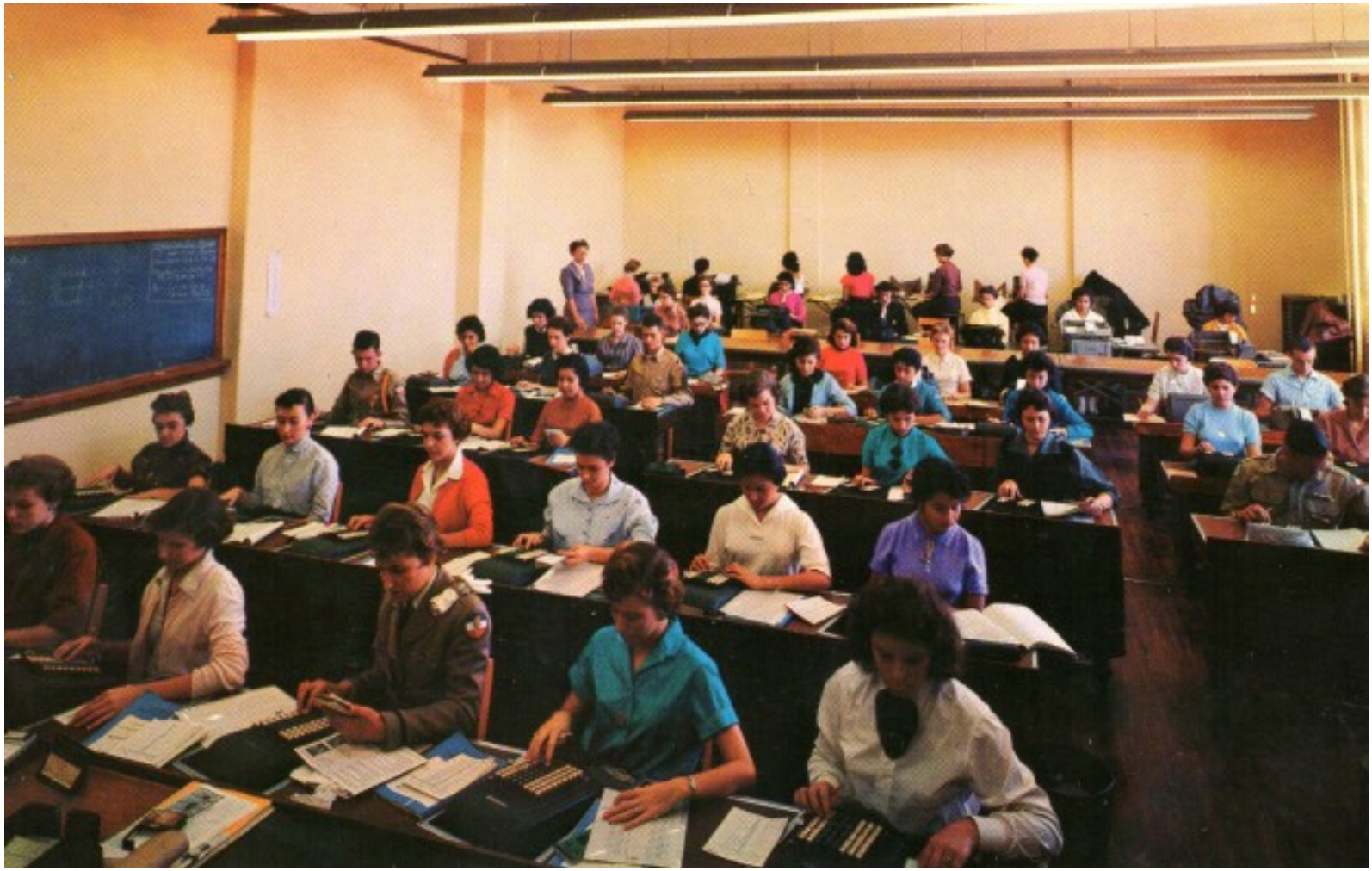
KG+D listen imagine build

In the 1960's and 1970's,our schools were preparing students like this....

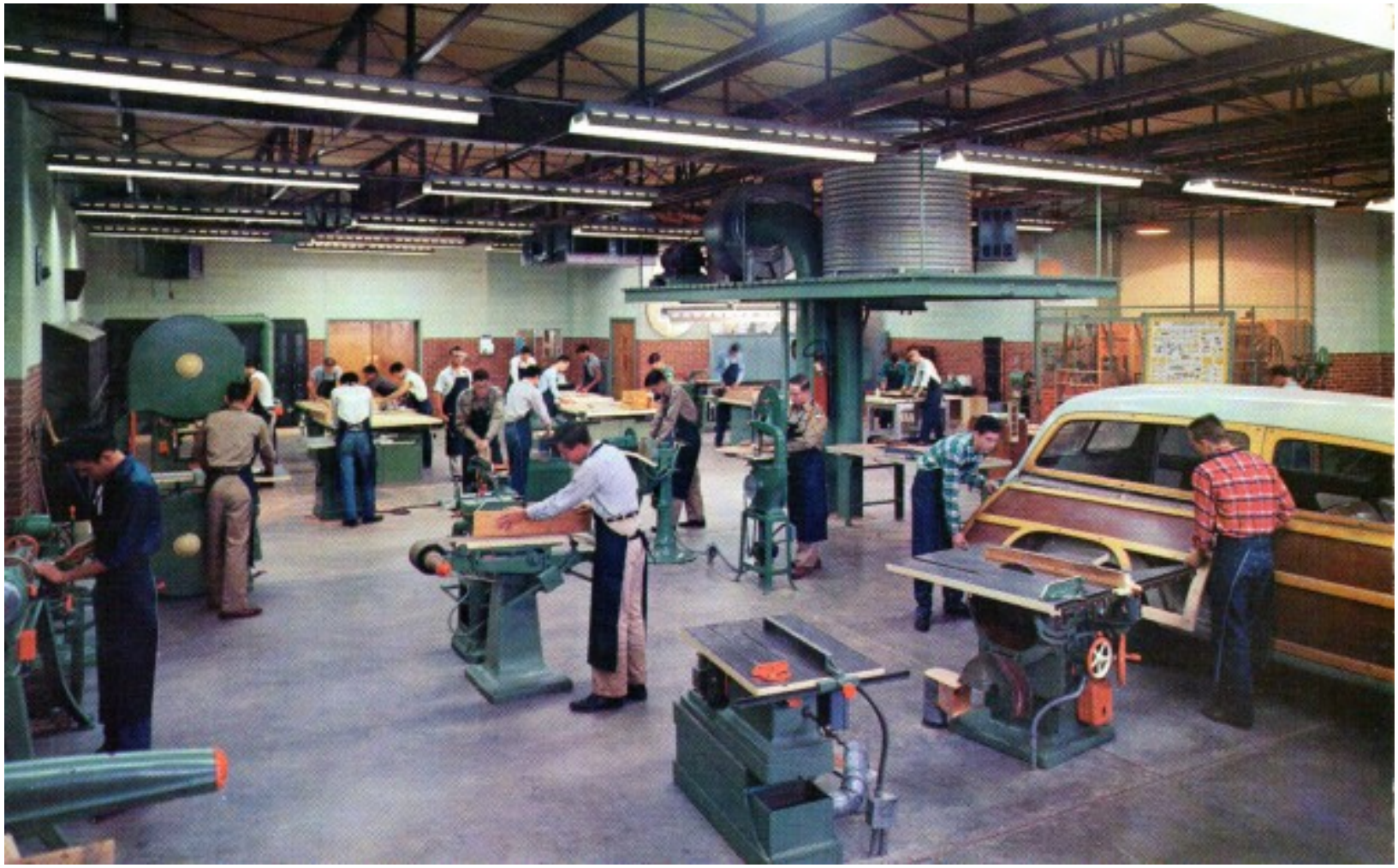
KG+D listen imagine build

KG+D listen imagine build

KG+D listen imagine build



KG+D listen imagine build



KG+D listen imagine build

For a World like this….

KG+D listen imagine build

Automotive Assembly Line

KG+D listen imagine build

Corporate Secretarial Suite

KG+D listen imagine build

Oldsmobile Plant, Lansing, MI

KG+D listen imagine build

KG+D listen imagine build

New York Stock Exchange

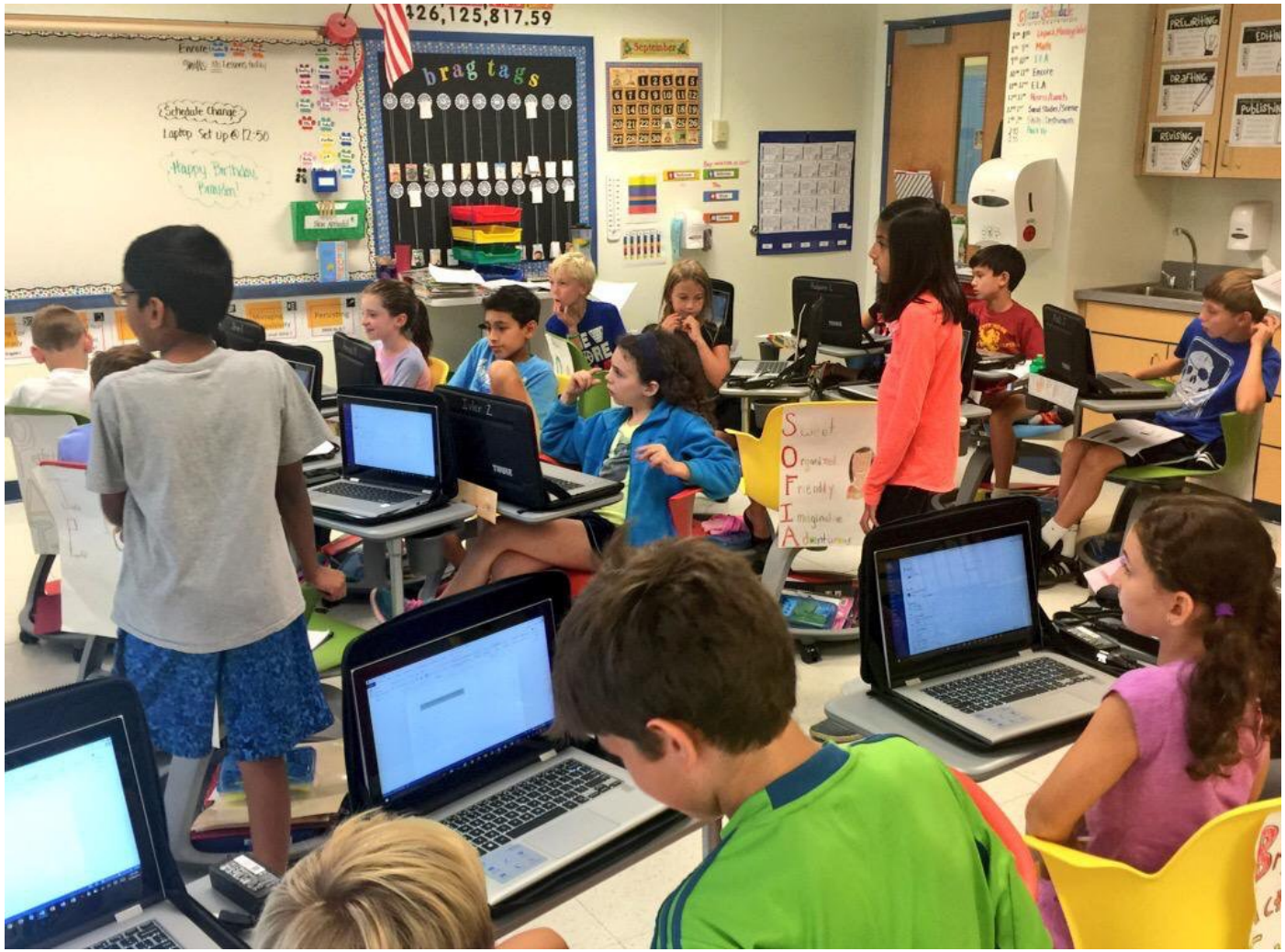
1971 Fortune 500 Companies:

1. General Motors
2. Exxon Mobil
3. Ford Motor Company
4. General Electric
5. International Business Machines
6. Mobile
7. Chrysler
8. ITT Industries
9. Texaco
10. AT&T Technologies

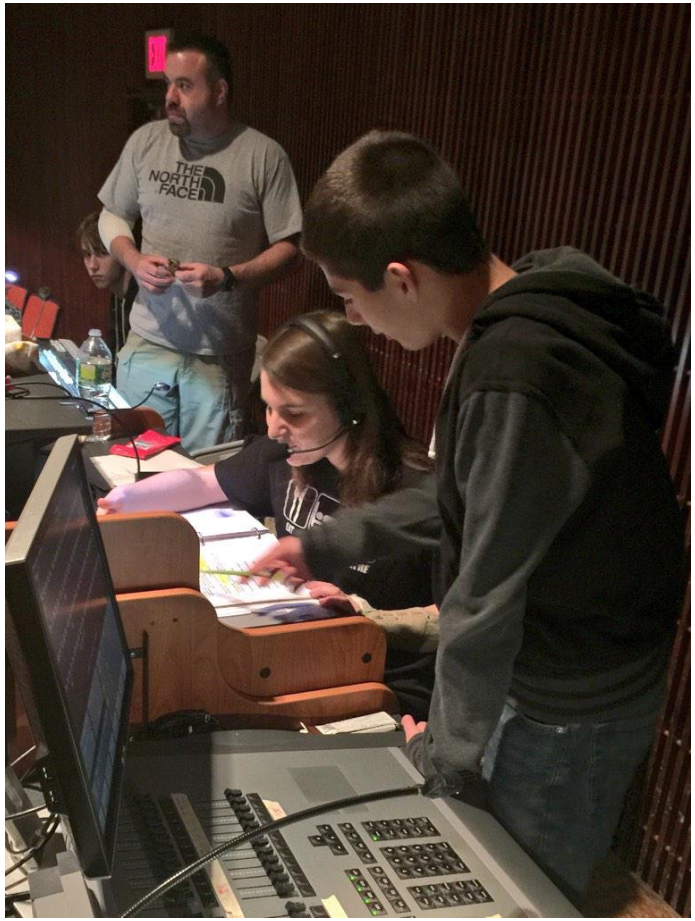
KG+D listen imagine build

Today, our schools prepare students like this……

KG+D listen imagine build



KG+D listen imagine build



KG+D listen imagine build

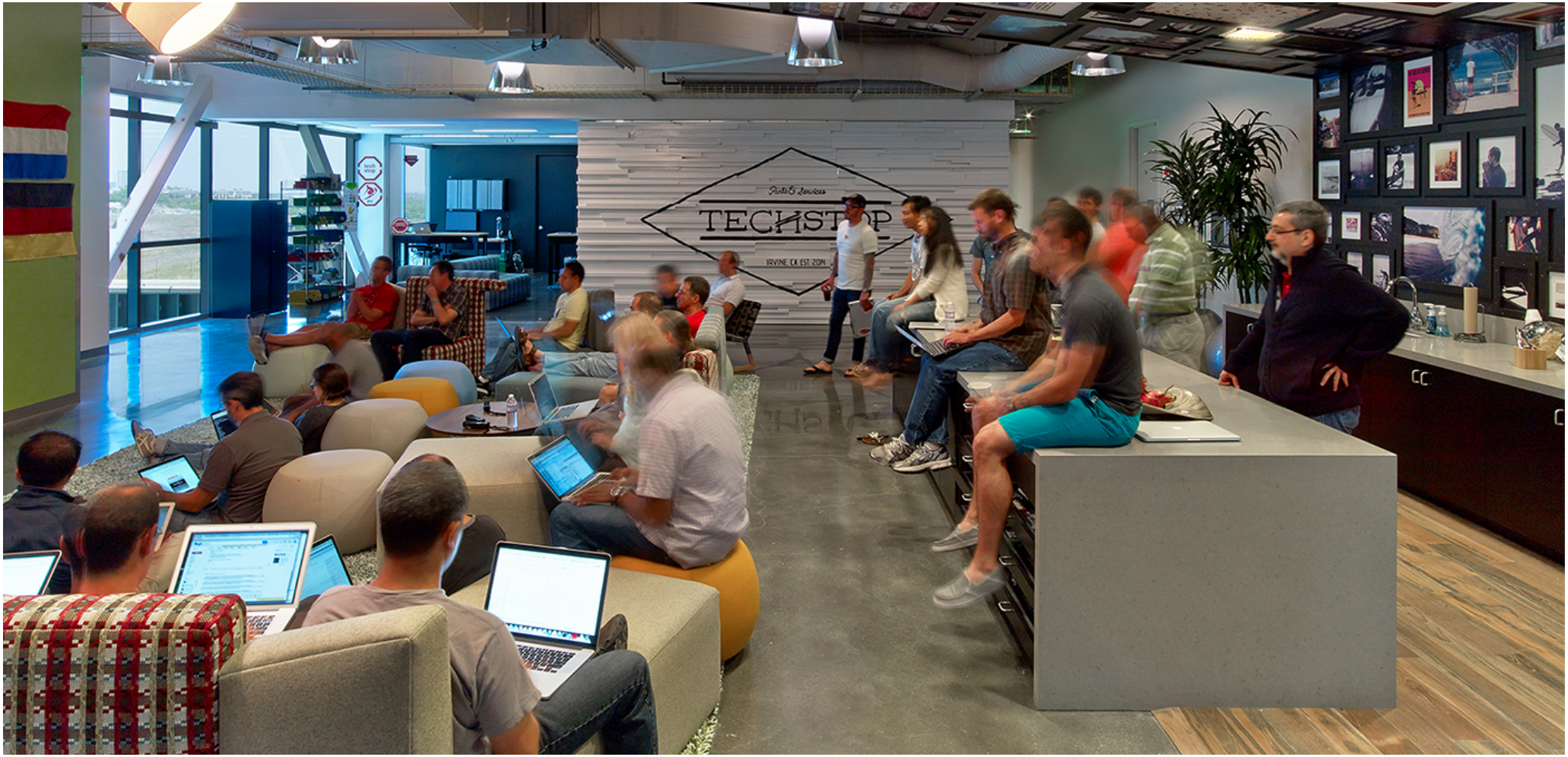
Einstein
QUESTIONS
BRIARCLIFF 2.0
BRIARCLIFF 2.0
THULE

Daily 5

For a World like this…..

KG+D listen imagine build

Work Environment of 2018



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Work Environment of 2018: Facebook

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Work Environment of 2018: Google

KG+D listen imagine build

Work Environment of 2018: Amazon Offices

KG+D listen imagine build

Work Environment of 2018: Tesla Factory

KG+D listen imagine build

Work Environment of 2018: Amazon Fulfillment Center

KG+D listen imagine build

Today's World

Google

amazon – *The world's largest retailer: owns no stores*

Apple

airbnb – *The largest hotel chain: owns no rooms*

Facebook

Tesla

UBER – *The world's largest taxi company: owns no cars*

Bitcoin

NETFLIX – *The largest movie house: owns no theaters*

KG+D listen imagine build

"You can't expect children to learn 21st Century skills in schools built for the 1950's. We need schools designed for 21st Century success."

- Chad P. Wick, President and CEO KnowledgeWorks Foundation

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65% of the children in preschool today will work in jobs that do not yet exist.

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Next-Gen Learning

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Traditional Learning	Next-Gen Learning
create alone	create together
present	design
right answers	right questions
bring solutions	seek / develop solutions
perfection	mistakes allowed
introverted	extraverted
closed / think quietly	open / think out loud
appearance	authentic
information gathered	knowledge generated
memorizing	understanding

KG+D listen imagine build

Research: Neuroscience & Education

- **ENJOYABLE ACTIVITIES**
  Enjoyable activities elicit dopamine release which enhances learning naturally and chemically, while also reducing the secretion of stress hormones which can impede learning and increase anxiety.
- **FUN + CHALLENGING**
  Effective approaches combine FUN with progressively increasing CHALLENGES.
- **EXERCISE IMPROVES LEARNING**
  Exercise, which increases pre-frontal cortex activity, is a great way to build cognitive ability. Studies find strong evidence that PHYSICAL ACTIVITY improves academic performance.

- **THE WHOLE CHILD**
  Programs to enhance SOCIAL & EMOTIONAL development accelerate school achievement as much as interventions targeted at academic subjects.

- **A child's INTERNAL MOTIVATION is one of the most powerful tools for learning.**

source: Sandra Aamodt (editor "Nature Neuroscience") & Sam Wang (Professor of molecular biology and neuroscience, Princeton)
authors of "Welcome to Your Child's Brain: How the Mind Grows From Conception to College"

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Increase **motivation** through:

Choices
Provide choices for content, timing, work partners, projects, process, environment, or resources

Relevance
Personal, applicable, relate to family, neighborhood, city, health, etc.

Engagement
Emotional, energetic, physical; use learner-imposed schedules and peer support.

Increase **apathy** through:

Requirements
Fully directed activities, no student input, restricted resources, limited teamwork

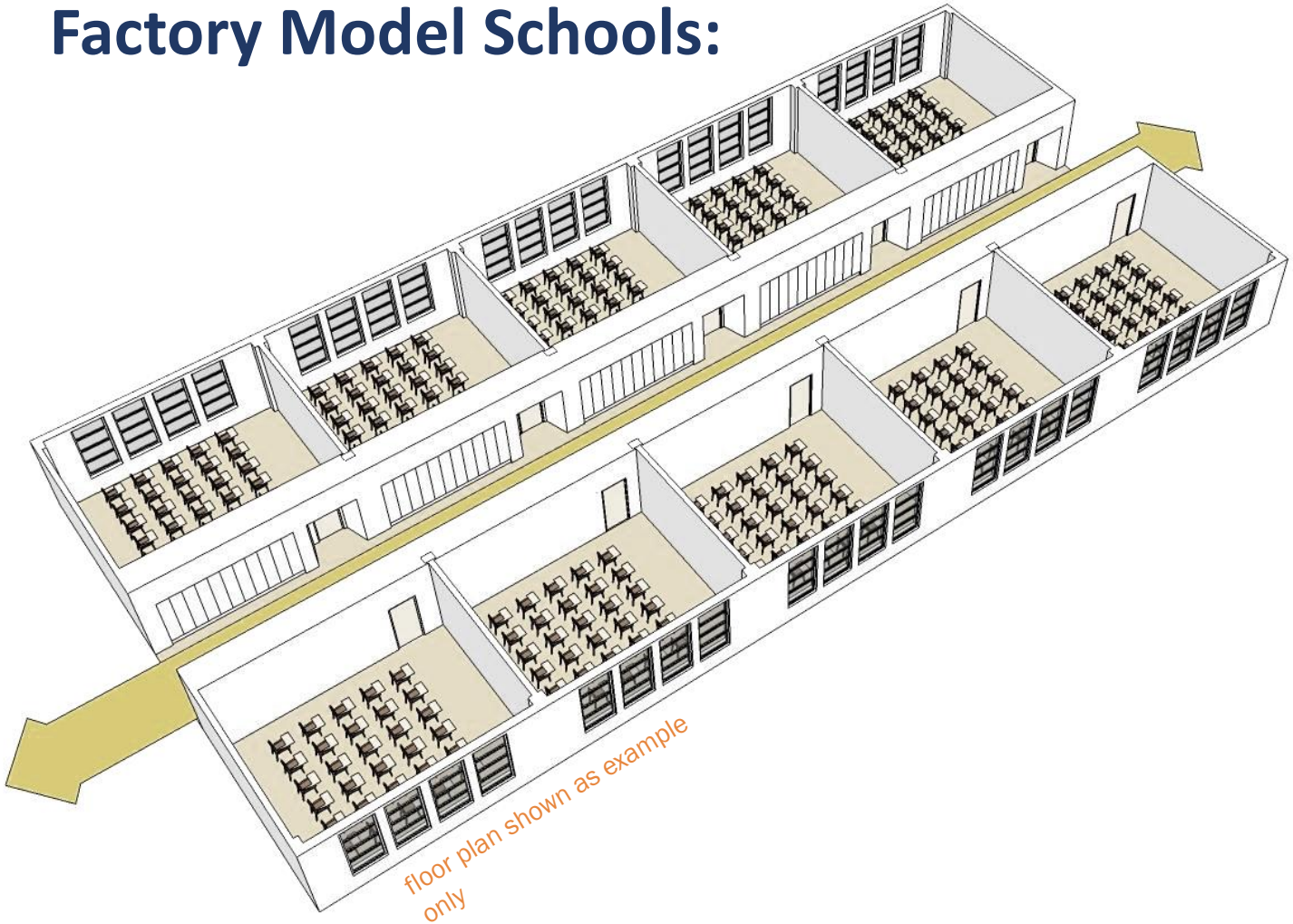
Irrelevance
Impersonal, useless, out of context, testing/standards-based

Passivity
Disconnected from the real world, low interaction, lecture, seatwork, isolation, etc.

source: Teaching with the Brain in Mind, by Eric Jensen

KG+D listen imagine build

Factory Model Schools:



- assumes all teachers teach the same way
- assumes all students learn in the same way
- uses identical blocks of time
- little deviation from year to year
- progression regardless of mastery
- right answers are valued highest
- focus on standardized testing
- students learn what is expected
- students motivated by fear of failure

KG+D listen imagine build

Next Generation Schools:

- ✓ **Relationships** are the cornerstone of academic achievement.
- ✓ **Relevance** motivates students to pursue understanding.
- ✓ **Diverse student interest** and abilities are celebrated.
- ✓ Choice is a foundation of **student-centered learning.**
- ✓ **Best-practices** are embraced and both rigor and innovation are expected.
- ✓ **Environmental stewardship** promotes global citizenship.
- ✓ Human, physical and **financial responsibility** fosters community support.
- ✓ A **safe, healthy and nurturing environment** meets holistic needs of learners.
- ✓ **Learning extends past the bell schedule** and beyond the school campus.
- ✓ **Technology is a powerful TOOL** for teaching and learning.
- ✓ The school is a **hub of community activity.**

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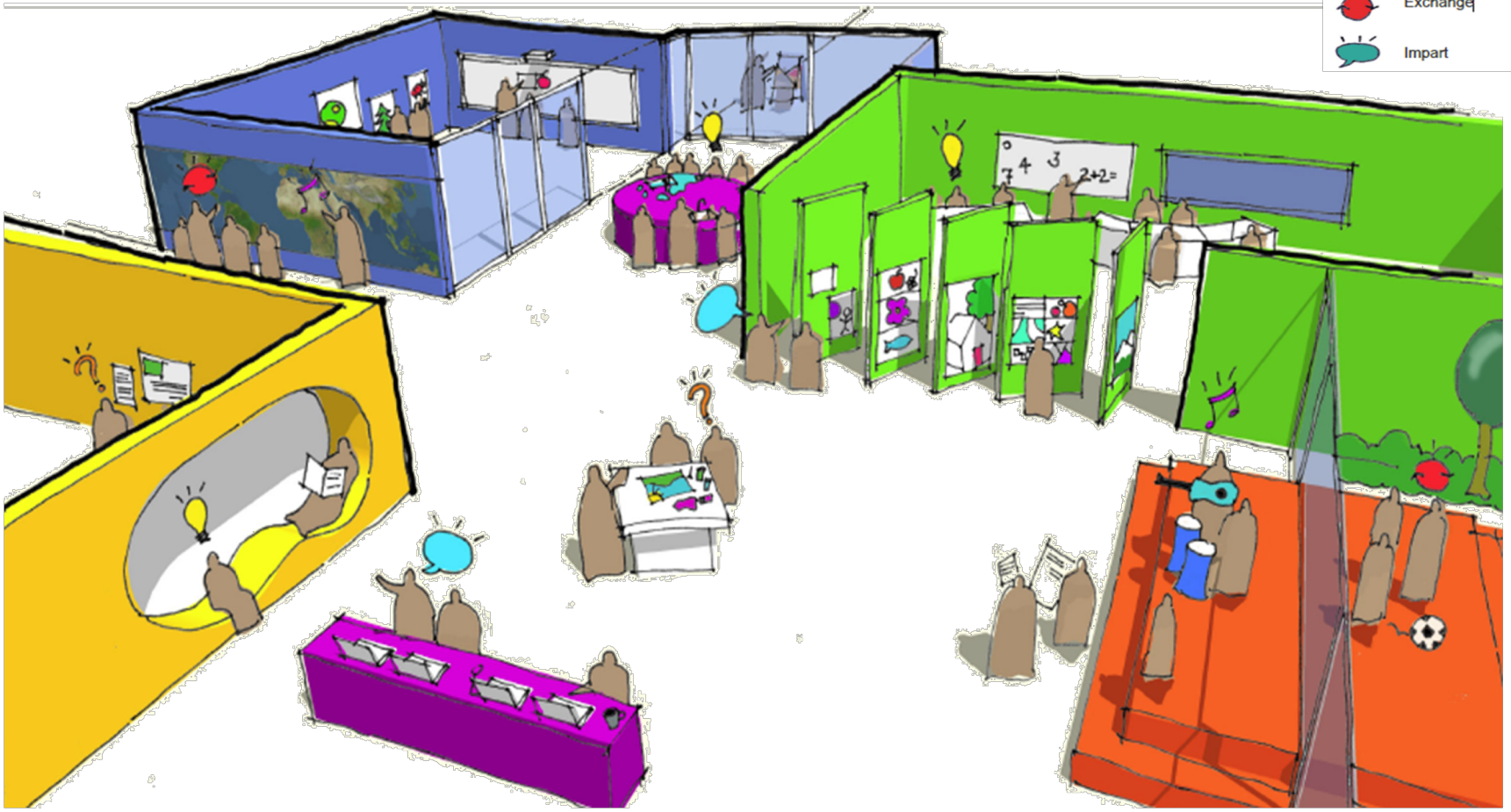
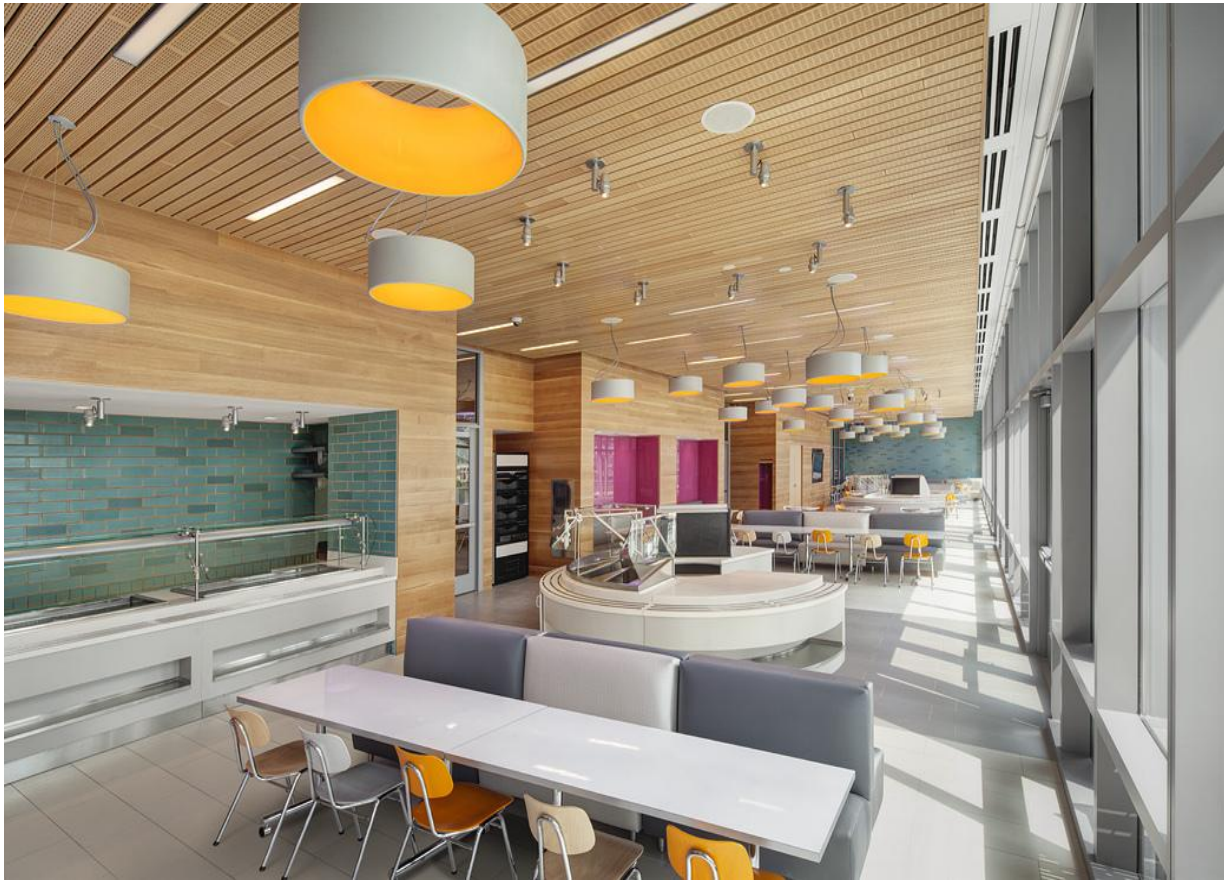
Next Generation Schools:



KG+D listen imagine build

Next Generation Schools:



- ✓ **varied selection** of environments available
- ✓ learning **extends** beyond the school building
- ✓ **student-centered**, students as focus
- ✓ rooms accommodate **various furniture layouts**
- ✓ **hands-on** projects are supported
- ✓ **visibility** into classrooms
- ✓ easy **access** to student support services
- ✓ **technology** is available and up-to-date
- ✓ **natural light** is critical
- ✓ learning extends **outdoors**

KG+D listen imagine build

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KG+D listen imagine build

Next Generation Schools:

KG+D listen imagine build

NYSED – NEXT GEN LEARNING STANDARDS

Revised NY State Next Generation Learning Standards for ELA and Math will be fully implemented in **September 2020**

- September 2017 – Adoption of NYS Next Generation Learning Standards
- **September 2020 – Full Implementation**
- Spring 2021 – New Grade 3-8 tests measuring Next Gen Learning Standards

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"The revised New York State Standards aim to reimagine the educational framework for English Language Arts and Mathematics with **the goal of better supporting educators in their instructional practice and to provide additional guidance on achieving a vision of 21st Century literacy."**

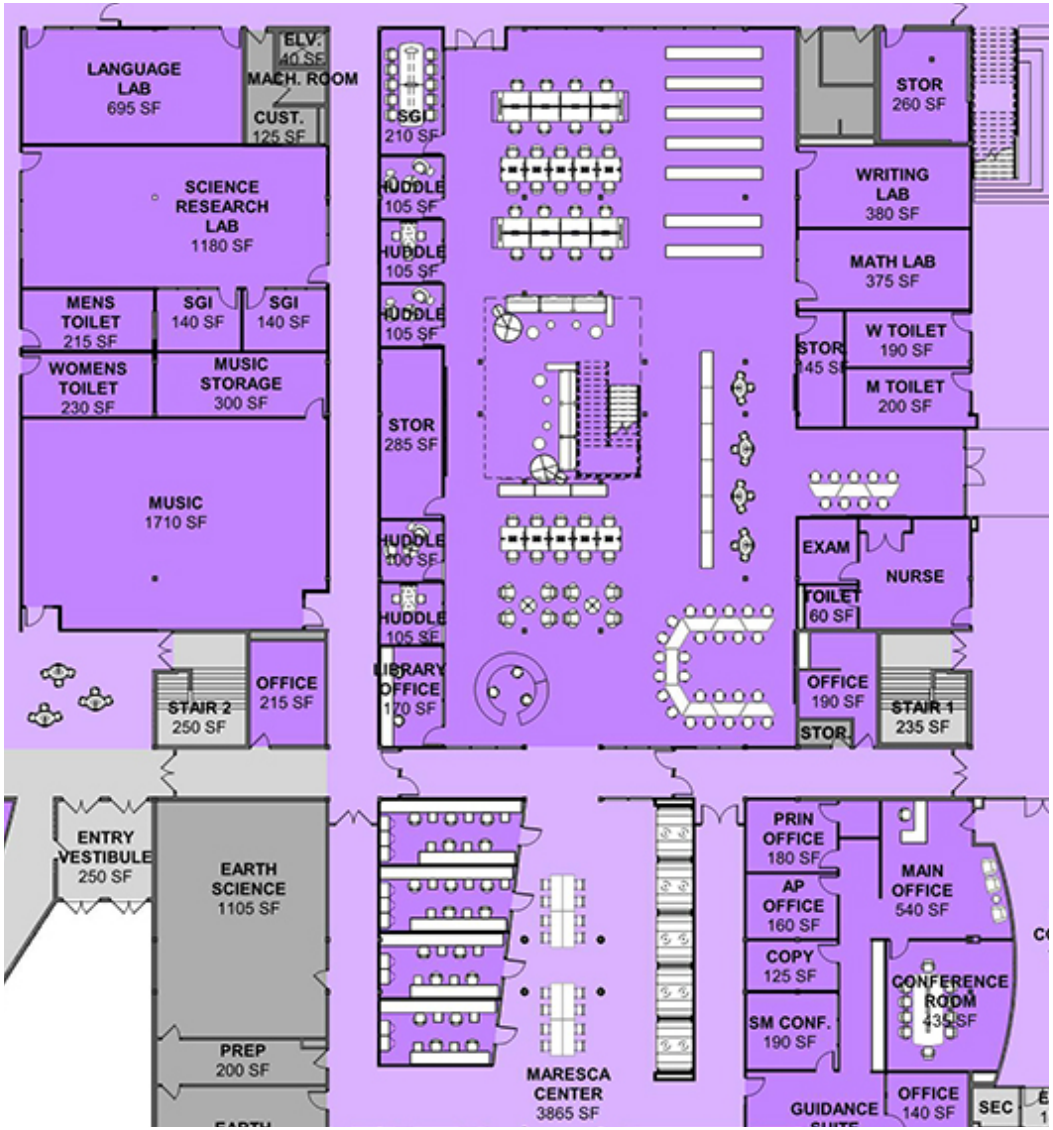
KG+D listen imagine build

A+

KG+D listen imagine build

A+

KG+D listen imagine build



A+

KG+D listen imagine build

A+

KG+D listen imagine build

Why this Project?

- Promotes the **Health, Safety and Security** of students and staff
  - Plan includes **enhanced security features** including scalable network infrastructure to support state-of-the-art security functions
  - Allows Todd to meet SED **physical education mandates** and allows for **indoor recess** during inclement weather
  - **Eliminates windowless interior** classrooms and **introduces natural light** throughout the interior of the High School
  - **Eliminates closets** and **former office spaces** used for high school educational and support activities

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Why this Project?

- Supports **Next Generation Learning** at the HS & MS
  - Supports Instructional **Paradigm Shift** from isolated rooms to flexible and digitally integrated learning environments
  - Creates spaces to support **collaborative, student-centered** and **project-based** learning
  - Promotes and enhances **blending learning** opportunities
  - Helps prepare students for **higher education** and **workplace** environments

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Why this Project?

- Provides much needed **performance and flexible use** space at Todd Elementary School
  - The creation of a **performance/flexible use space** for enhanced instructional programs and assemblies
  - Moving the gymnasium will allow for a **more secure and functional community resource** (shared resources)
  - In conjunction with the performance/flexible use space, Todd will have a suitable Performing Arts space and **better meet NYS PE mandates** and **accommodate indoor recess**

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Why this Project?

- Addresses **High Priority Infrastructure Needs**
  - Of the previously identified **$13M:**
    - $7.625M will be addressed in the Bond Project
    - $4.5M will be achieved through Annual Projects
    - $0.875M has been deemed unnecessary or redundant
  - This plan would completely address the current list of infrastructure needs including **Security Upgrades**

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Annual Infrastructure Projects

▪ HS Locker Room Upgrades	$1,380,000
▪ HS Science Table Replacements	$110,000
▪ HS Toilet Room Renovations	$100,000
▪ HS Corridor Ceilings and Lighting	$100,000
▪ HS Kitchen Prep Area Renovations	$350,000
▪ Todd Staff Toilet Rooms	$200,000
▪ Generators at Todd and HS/MS	$400,000
▪ Flooring, Finishes & Replacements	$1,850,000
TOTAL =	**$4,495,000**

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Why Now?

- Core spaces in the High School have not been significantly renovated in **50 +/- years**
- This is a **smart time** to make a capital reinvestment
  - The District has significant retiring debt service
  - Borrowing rates remain low
  - Construction costs are projected to escalate moving forward
- By replacing debt service, funding for necessary maintenance and improvements can be accomplished **without increasing the tax levy over current levels.**

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Proposition:

- **Enhance Safety and Security Features at all three schools**
- **Create two New State-of-the-Art Science Classrooms (HS)**
- **Renovated LMC/Commons Area (HS)**
- **Create New Guidance Suite (HS)**
- **Renovated Maresca Center for Guided Learning & Support (HS)**
- **Renovate old Computer Lab Maker Space/Fab Lab (MS)**
- **Attend to Critical Infrastructure work (Districtwide)**
- **Elementary Main Office consolidation (Todd)**
- **Creation of a Todd Support Services Suite (Todd)**
- **Elementary Multi-Purpose/Performance Space (Todd)**
- **Creation of New Gymnasium (Todd)**
- **Creation of New Math and Writing Labs (HS)**
- **Creation of New Science Research Center (HS)**
- **Enhancements to the Performing Arts (HS)**

KG+D listen imagine build

Budget

BRIARCLIFF HIGH SCHOOL	($18,300,000)
BRIARCLIFF MIDDLE SCHOOL	($300,000)
TODD ELEMENTARY SCHOOL	($8,100,000)
INFRASTRUCTURE	($7,250,000)

OPTION A+ = $33,950,000

KG+D listen imagine build

NEXT STEPS

- COMMENCE SEQRA — June 18, 2018 – August 2018
- COMPLETE SEQRA — August 2018
  (30 days min. after commencement)
- BOE RESOLUTION FOR A VOTE — September 2018
- **BOND REFERENDUM — December 13, 2018**
  (45 days min. after resolution)

- DESIGN AND CONSTRUCTION DOCUMENTS — Nov 2018 – June 2019
- NYSED REVIEW AND APPROVAL — July 2019 – October 2019*
- CONSTRUCTION — June 2020 – TBD

** Assumes Third-Party Review*

KG+D listen imagine build

Every student, every day…