



HAZLET TOWNSHIP PUBLIC SCHOOLS

A FUTURE READY AND SUSTAINABLE DISTRICT

FOR SCHOOLS **SUSTAINABLE** **JERSEY®**

A BRIGHTER FUTURE,
ONE SCHOOL AT A TIME



www.SustainableJerseySchools.com



A certification program for New Jersey public schools that want to go green, conserve resources and take steps to create a brighter future,

ONE SCHOOL AT A TIME.

SUSTAINABLE JERSEY FOR SCHOOLS:

- Advances and supports sustainable practices in schools and prepares the next generation to address sustainability issues
- Identifies actions that schools can implement to become certified
- Provides guidance and tools to enable schools to make progress on each action
- Provides access to grants and identifies funding opportunities for schools to make progress toward the actions
- Encompasses the three equal, interrelated components of sustainability:

People – Contribute to a strong civil society that provides opportunity for all

Prosperity – Support local economies and wise use of community resources

Planet – Practice responsible environmental management and conservation

School participation is strictly voluntary and never mandated. Certification actions are developed through an ongoing process of discussion and research that includes the participation of many New Jersey leaders and experts from school districts, state agencies, academia, government, the non-profit sector and the business community.

ACTIONS FOR SCHOOLS:

- BRONZE** The bronze level of certification requires the establishment of a mandatory green team, implementation of 2 out of 11 PRIORITY ACTIONS* and a total of 150 points. Actions must be completed in 6 of 19 categories.
- SILVER** The silver level of certification requires the establishment of a mandatory green team, implementation of 3 out of 11 PRIORITY ACTIONS* and a total of 350 points. Actions must be completed in 8 of 19 categories.

To become certified, schools must complete and document actions from this list.

PEOPLE	DIVERSITY & EQUITY		Points
	Accessible Communications	👤 🏠	10
	Breakfast After The Bell	👤 🏠	20
	Diversity on District Task Forces & Committees	👤 🏠	10
	FOOD & NUTRITION		
	Healthy Food Choices	👤 🏠	10
	Promote Locally Grown Foods	👤 🏠	10
	School Gardens	👤 🏠	10-30
	HEALTHY SCHOOL ENVIRONMENTS		
	Indoor Air Quality Review ★	👤	15
	Access to Healthy Water in Schools	👤	20
	Anti-Idling Education & Enforcement	👤 🏠 🏠	10
	Asthma Friendly Schools	👤	10
	Classroom Chemical Purchase, Storage & Disposal Policy	👤 🏠	15
	Classroom Cleanup Policy & Practices	👤 🏠	10
	Integrated Pest Management-Education & Organic Lawn Care	👤	10
	Outdoor Air Quality Awareness	👤 🏠	10
	Radon Testing, Education and Mitigation	👤	10-20
	Reporting Process for Indoor Air Quality Concerns	👤	10
	SCHOOL CULTURE & CLIMATE		
	Inclusive Environment Where All Can Thrive	👤	10
	School Culture & Climate Needs Assessment	👤	20
	Social Emotional Learning Integrated Unit	👤	10
	STUDENT & COMMUNITY OUTREACH		
	Green Team ▲		10-15
	Community Education & Outreach ★	👤 🏠 🏠	10
	Civic & Stewardship Volunteer Initiatives	👤 🏠	10
	Enrichment Programs through Partnership	👤	10
	Green Challenges	👤 🏠	10
	Green Fair	👤 🏠	10
	“Green” Your Green Fair or School Event	👤 🏠	10
	STUDENT SAFETY		
	Pedestrian and Bicycle Safety & Promotion Initiatives	👤 🏠	10
	Safe Driving Awareness Programs for High School Students	👤	10
	Safe Routes to School District Policy	👤 🏠 🏠	10
	School Travel Plan for Walking & Biking	👤 🏠	10
	STUDENT & STAFF WELLNESS		
	School Wellness Council ★	👤	20
	Policies to Promote Physical Activity	👤	10
	Programs to Promote Physical Activity	👤	10
	Staff Wellness Program	👤 🏠	10

HAZLET TOWNSHIP PUBLIC SCHOOLS

RARITAN HIGH SCHOOL

Silver Award

PROSPERITY	BOARD LEADERSHIP & PLANNING	Points
	District Sustainability Policy ★	10
	Professional Development for Sustainability ★	5-20
	Green Enhancement of District Strategic Plans	10
	School Community Asset Mapping	10
	School District Foundation	10
	Strategic Plan Implementation of Green Initiatives	10
	ENERGY EFFICIENCY	
	Energy Efficiency for School Facilities ★	5-50
	Behavior-Based Energy Conservation Programs	10
	Energy Tracking & Management	10-20
	INNOVATION PROJECTS	
	Innovative Project #1	10
	Innovative Project #2	10
	INTEGRATED SCIENCE, TECHNOLOGY, ENGINEERING, ARTS & MATH	
	iSTEAM Planning & Implementation	15
	iSTEAM Strategic Plan Indicators/iSTEAM Policy	10
	iSTEAM Collaborative Units of Study	10-50
	iSTEAM Professional Development Plan	5-20
	LEARNING ENVIRONMENT	
	All Arts Disciplines Offered	10
	Curriculum Mapping	15-30
	Future Ready Schools Certification	10-15
	Outdoor Classroom	10
	Student Participation in the Arts	10
	STUDENT LEARNING ★ (One approved action in this category counts toward priority requirements)	
	Education for Sustainability Integrated Unit	10-50
	Education for Sustainability Pre K-3	5
	Education for Sustainability Grades 4-12 Creativity/Arts	5
	Education for Sustainability Grades 4-12 Career and Technical Education	5
	Education for Sustainability Grades 4-12 English Language Arts	5
	Education for Sustainability Grades 4-12 Health	5
	Education for Sustainability Grades 4-12 Math	5
	Education for Sustainability Grades 4-12 Science	5
	Education for Sustainability Grades 4-12 Social Studies	5
	Education for Sustainability Grades 4-12 Technology	5
PLANET	CLIMATE MITIGATION & RENEWABLE ENERGY	Points
	School Carbon Footprint ★	10
	Buy Renewable Electricity	10
	On-site Renewable Generation System-Geothermal	10
	On-site Renewable Generation System-Solar	5-40
	GREEN CLEANING	
	Green Cleaning Equipment	10
	Green Cleaning Policy & Plan	10
	Green Cleaning Supplies	10
	Green Cleaning Training & Education Programs	10
	GREEN DESIGN	
	Green Building Policy ★	10
	Design/Build/Certify New Construction & Major Renovations using Green Standard	10-50
	Green Building Training	10
	GREEN PURCHASING	
	Green Purchasing Policy ★	10
	EPEAT Certified IT Purchases	10
	Recycled Paper Purchase	10
	Sustainable Fleets	5-15
	SCHOOL GROUNDS	
	Biodiversity Audit & Management Plan	10
	Biodiversity Project	10
	Green Infrastructure Assessment & Plan	10
	Green Infrastructure Installation	10
	WASTE MANAGEMENT & RECYCLING	
	Waste Audit ★	10
	Document Recycling Rates	10
	EPA Waste Wi\$e	5
	Food Waste Management	15
	Materials Reuse	10
	Recycling Non-Mandated Materials	5-20

★ Signifies a Priority action. Schools must complete at least two priority actions to achieve certification.

▲ Signifies a Mandatory action. In order to participate in the program a district or school must complete this step.

■ Signifies a district only action. District actions earn points for all registered schools in the district.

▲ Signifies a school only action

■ Signifies a parallel action in the Sustainable Jersey municipal certification program. Visit the participating town map at www.SustainableJersey.com to find contact information for your local municipal green team to explore working with them on this action.

To learn more visit www.SustainableJerseySchools.com

Please note: Program actions and points may be subject to change. For the current official list of actions and points visit the website.

POINTS

- Green Team worked together with District Science Supervisor to build the points over years
- Student involvement
- Administrative Support
 - Central Office
 - Building Level
- Board of Education Support
- Recognition
 - Board Meeting
 - Social Media

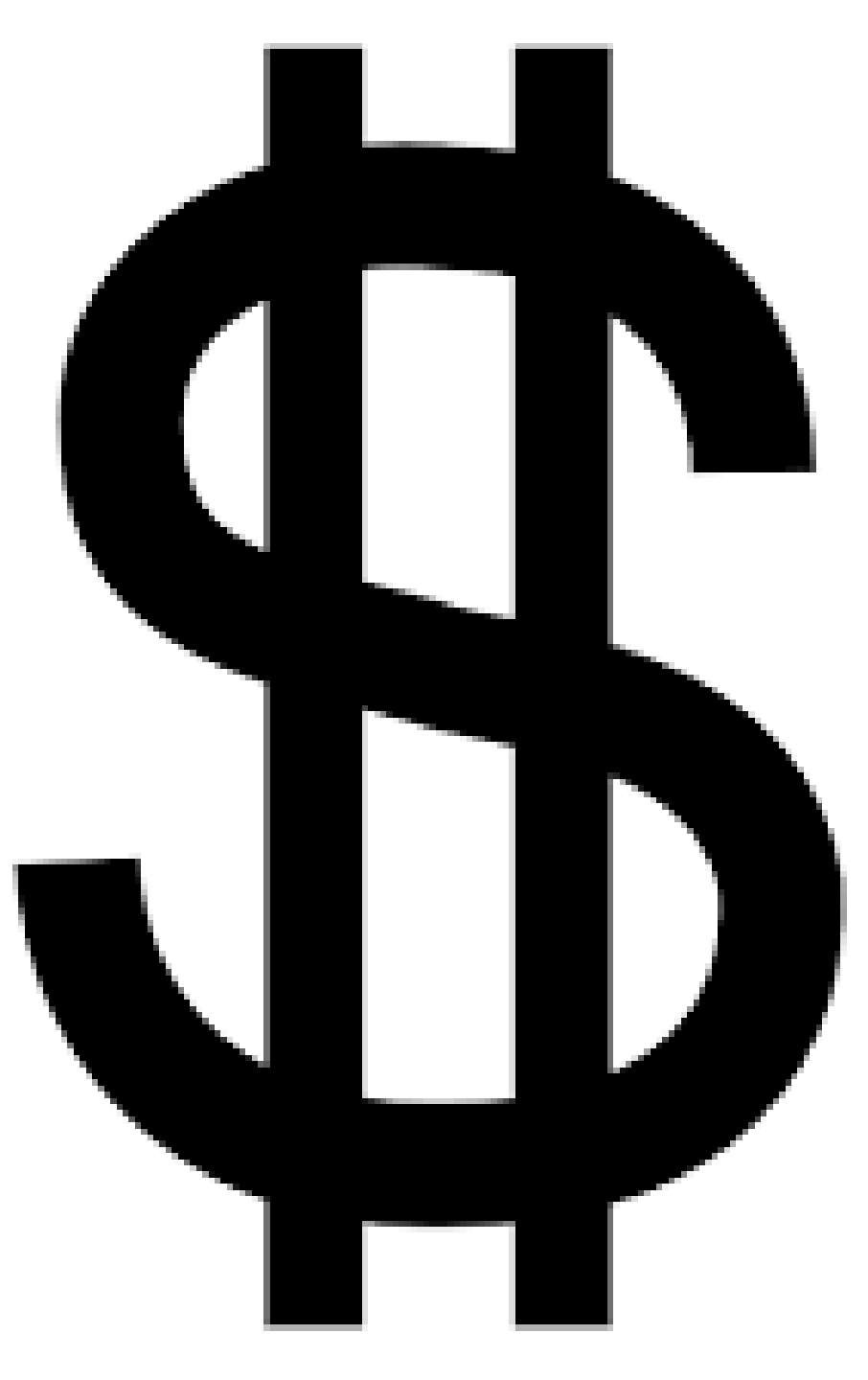
DISTRICTWIDE SCORES

- Sycamore Drive ECLC - 165 points (Bronze certification)
- Beers Street School - 165 points (Bronze certification)
- Cove Road School - 195 points (Bronze certification)
- Lillian Drive School - 155 points (Bronze certification)
- Middle Road School - 260 points (Bronze certification)
- Raritan Valley School - 380 points (Silver certification)

- Hazlet Middle School - 185 points (Bronze certification)

- Raritan High School - 360 points (Silver certification)

Highest score of any high school in New Jersey



GRANT AWARDS

Raritan High School

\$10,000.00 - New Jersey American Water - created the Outdoor Environmental Learning Center (pollinator/rain garden, greenhouse, outdoor planting beds & outdoor classroom space)

\$2,000.00 - NJEA Sustainable Schools Grant - used to purchase garden tools, seeds, plants for the two outdoor raised beds.

\$10,000.00 - PSE&G Sustainable Schools Grant - used to convert our cafeteria from disposable food trays to reusable plastic trays. Idea came from our student led environmental club.

\$500.00 - Gro More Food Grassroots Grant - used to purchase seeds and plants for the 2020-2021 growing season.

District built on these awards and completed both courtyards making them outdoor learning environments – partnered with an Eagle Scout for tables and TREC competition for a bench



RARITAN HIGH SCHOOL



PARTNERING
SPECIAL EDUCATION DEPARTMENT
WITH MASCHIO'S FOODSERVICE

The background image shows an outdoor setting with a brick building on the right and a grassy area with some plants on the left. In the foreground, there are several large, dark green compost bins. A semi-transparent black box with white text is overlaid on the image.

PARTNERSHIPS

Composting at Raritan High School - The RHS Environmental Club in cooperation with the cafeteria staff have installed composting bins in the Outdoor Environmental Learning Center to produce compost from the food scraps generated from the cafeteria and the Culinary Arts classes.

Every Friday or last day of the week, students collect the food scraps from the cafeteria and Culinary Arts classroom and place the food scraps into the compost bins.

The compost produced is be used in the outdoor planting beds and in the greenhouse.



GRANT AWARDS - CONTINUED

Hazlet Middle School

\$2,000.00 - Sustainable Schools Grant - used to establish a school garden in the school courtyard.

District built on this award to create outdoor learning environment connected to the Art Room and HUB (former media center)

Middle Road Elementary School

\$2,000.00 - PSE&G Sustainable Schools Grant - used to create an outdoor learning space integrating science, technology and music.

Project getting underway now despite the pandemic – students and staff are involved

Cove Road School

\$10,000.00 - Will purchase aeroponic tower gardens to supplement the sustainability curriculum by providing students with an opportunity to observe and research the growing process. The tower garden will allow the teachers to incorporate additional technology, science, engineering, math and language arts into their lessons.

\$2,000.00 - Sustainable Schools Grant - used to establish a school garden

HAZLET MIDDLE SCHOOL



A photograph of a garden with two children. A boy in a blue shirt is in the background, and a girl is in the foreground, both smiling. They are surrounded by green plants, likely tomatoes, which are supported by wooden stakes. A brick building is visible in the background.

HMS GARDEN

A photograph of an outdoor learning environment at a school. The scene features a brick building with several windows and a central tree. The ground is paved with light-colored bricks. There are several picnic tables and a circular table with chairs. A person is sitting in a chair in the foreground, and another person is sitting on a bench in the background. The text "OUTDOOR LEARNING ENVIRONMENTS" is overlaid on the right side of the image.

OUTDOOR LEARNING ENVIRONMENTS



REFERENDUM

Creating the optimal learning environment

Focus was on energy efficiency

- Boilers
- Lighting
- Healthy Buildings
- Building Management System

HAZLET SCHOOLS

Hazlet Township Public Schools is partners with Energy Star to earn certification in all 8 of our schools!

A building must meet strict energy performance standards set by the EPA to become certified.

Each building must score an energy star score of 75 or higher.

Beers	82	Cove	89
Lillian	75	Middle	93
Raritan Valley	94	Sycamore Drive	95
Hazlet Middle School	76		
Raritan High School	91		



ENERGY SCORECARD

2018 Energy Scorecard

Hazlet Township Public Schools

How energy efficient is your school district?

67%

Low Medium High

Hazlet Township Public Schools is more energy-efficient than **67%** of New Jersey school districts. Last year, your District's score was **68%**.

Your District spends:

\$703,983 annually on energy

\$1.39 per square foot

\$239 per student

Your District's energy efficiency ranking is:

#14 out of 49 in Monmouth County

#187 out of 641 in New Jersey

Note: 1 = lowest cost (most efficient)

Energy Costs over Time:

Year	Annual Energy Costs (\$)	Year over Year % Change	
		Your District	State Average
2015	\$780,967		
2016	\$716,970	-8%	-11%
2017	\$731,615	2%	4%
2018	\$703,983	-4%	-5%

This energy efficiency ranking is based upon the Energy Cost Index:

$$\text{Energy Cost Index} = \frac{\text{total annual energy costs (\$)}}{\text{building square footage (SF)}}$$

The Energy Cost Index (\$/SF) is an industry-standard benchmark for energy efficiency. Please note that many factors affect energy use, such as building type, year of construction, occupancy, schedule of operation, age of equipment, weather, temperature setpoints, and more.

Food for thought:

- What can your District do to reduce energy costs?
- If you could free up funds from your energy budget, what would you do?

Source: 2018 Comprehensive Annual Financial Reports (CAFRs) from the NJ Department of Education. District CAFR reports without complete energy expenditures and square footage data were excluded from this analysis.

Contact:

Daniel Riggle, Account Executive daniel.riggle@se.com

www.enable.schneider-electric.com

Life Is On

Schneider
Electric

CENERGISTICS

Hazlet partnered with energy management company

Onsite – school employee

Manages energy and building management system

Educational benefit for students

\$743,576 in savings to date

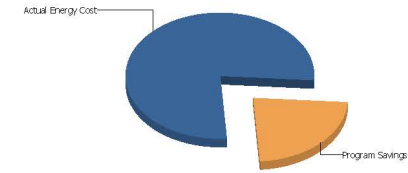
Hazlet Township Public Schools Hazlet Township PS - NJ

Energy Conservation Program CAP - 19

Cumulative Cost Savings

September 2020

Expected Energy Cost	\$2,627,469
Actual Energy Cost	\$2,026,612
Program Savings	\$600,857
Percent Savings	22.9%
Other Savings	\$142,719
Total Savings	\$743,576



Expected Energy Cost

Anticipated expense without energy management.

Base year usage after adjustments for such variables as changes in weather, equipment, schedules, occupancy and prices.

Actual Energy Cost

Actual utility costs for electricity, gas, water, sewer, etc. obtained directly from bills.

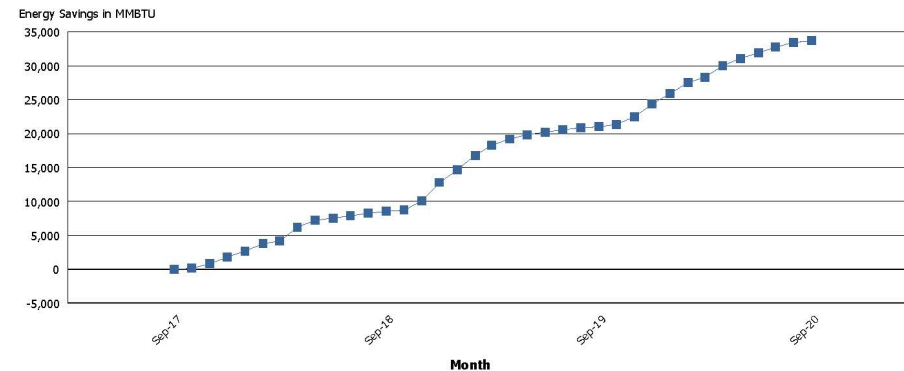
Other Savings

Additional documented savings attributable to Program activities but not the direct result of usage reductions, such as rebates, refunds, tariff changes, etc.

Program Savings

The difference between Expected and Actual Cost, calculated in accordance with the International Performance Measurement & Verification Protocol. Does not include savings attributable to reduced equipment maintenance and replacement costs and other collateral benefits. These savings can increase the program savings up to 20%.

Cumulative Energy Savings



Cumulative Greenhouse Gas Reduction

Energy Reduction Impact: 33,717 MMBTU 1,953 equiv. metric tons of CO2

This is equivalent to the following:

Passenger cars not driven for one year:	407
Tree seedlings grown for 10 years:	50,082

Requested by: cvilla152

Version:

Report Version: 17

Filters: One Page per Building (Y/N) Equals 0;Account is Active Equals 1;Bill is from External Vendor Equals 1

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CURRENT PROJECTS

- Free Virtual Audits with our Local Government Energy Audit Program
- LGEA team will work with you and your team and go through the virtual audit process from beginning to end. A virtual energy audit consists of our LGEA auditors guiding you step by step safely and comfortably through the buildings to collect data and take pictures of the equipment.
- All 8 schools have been evaluated and now an action plan will be created.



Local Government Energy Audit Report

Raritan High School

October 15, 2020

Prepared for:
Hazlet Township Public Schools
419 Middle Road
Hazlet, NJ 07730

Prepared by:
TRC
900 Route 9 North
Woodbridge, NJ 07095



FUTURE GOALS

Solar Upgrades

The solar generating system, including roof top solar panels, ground arrays and parking canopies at three schools, for a grand total of almost 1.4 million kilowatts.

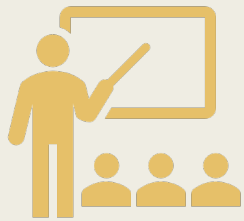
Goal now is to replace these systems and install additional systems at all the schools in the District.



FUTURE READY – CERTIFIED DISTRICT

- Board of Education Goal
- Central Office Goal
- School Goal
- Staff involvement

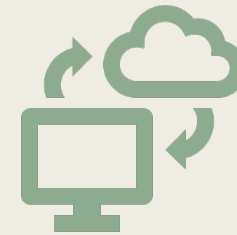
THREE-TIERED APPROACH



Education and
Classroom



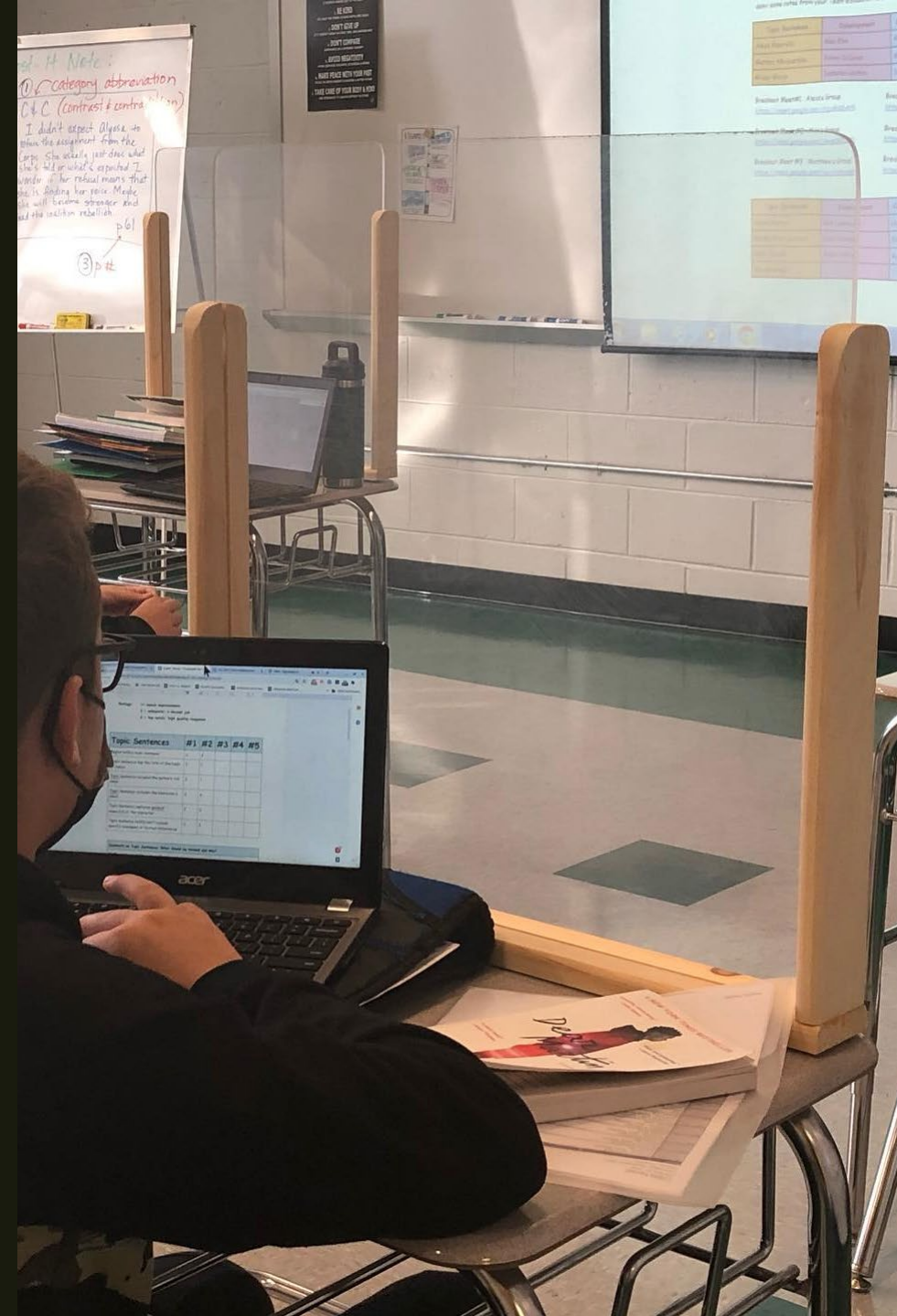
Leadership and
Technology

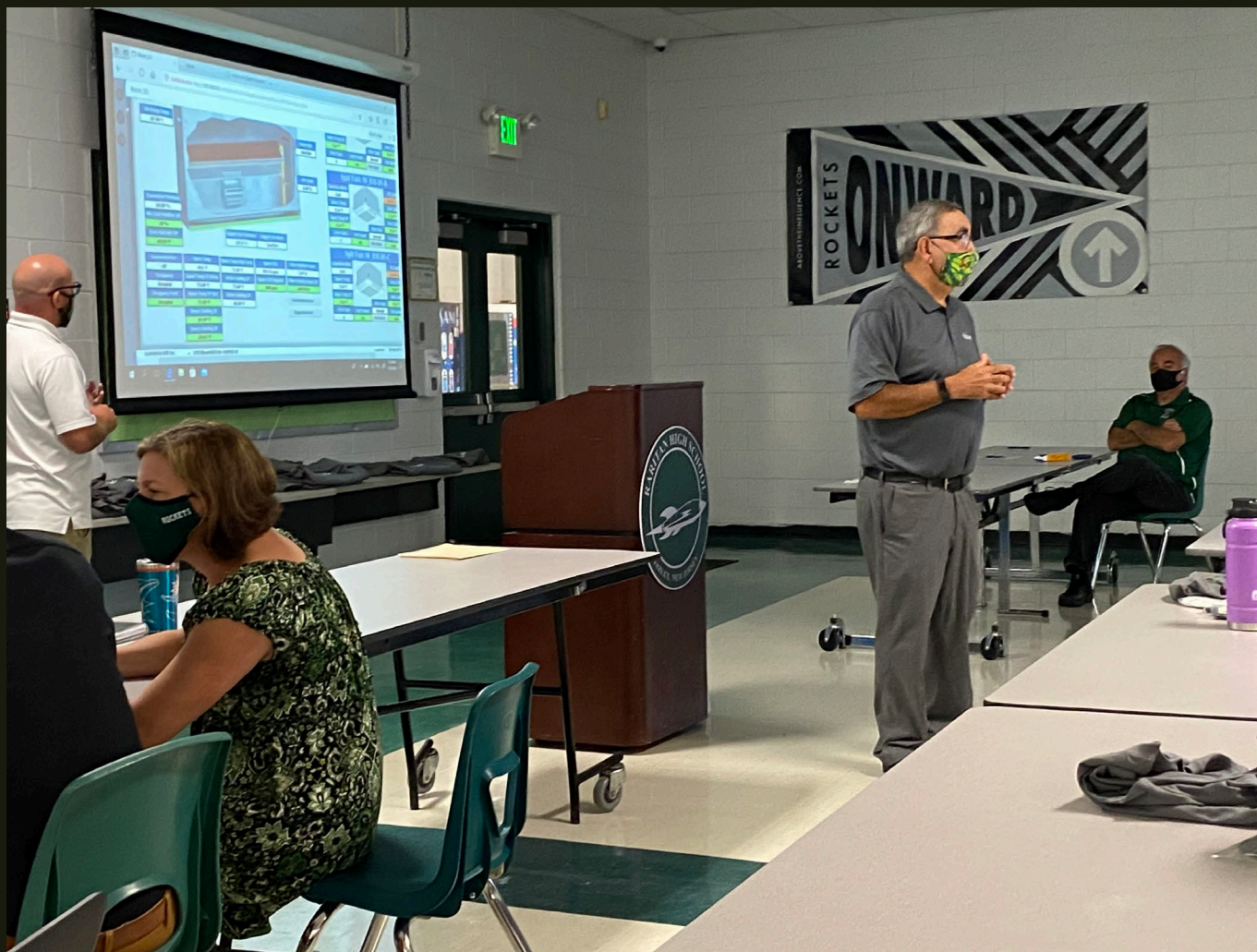


Technology

EDUCATION AND CLASSROOM

- Education & Classroom connected our teachers, students and families with our curriculum.
- Teaching and learning in the early 21st Century requires students to read, write, collaborate, and research in all content areas. A Chromebook provides them with the capacity to learn by using the latest technologies. Having a Chromebook (1:1 GRADES 5-12) will empower students with content and skills to prepare them for career and college when they leave Raritan High School.





LEADERSHIP – THEN till NOW

- Leadership during the Future Ready Certification ensured all the principals, supervisors, directors and central office team members were involved, understood and were invested in the rollout.
- The District Management Team from the top down was following the Tri-Pod of initiatives that included Future Ready
- Hazlet's pandemic team was ready to work together and return our students to school because we are FUTURE READY



TECHNOLOGY

- The technology tier included our entire technology team, including the Network Administrator and his technicians.
- Involved in every step of the process.
- Student devices
- Staff Training
- Parental Communication
- Districtwide “buy-in”

PUTTING “WORDS” INTO REALITY

Hazlet Township Public Schools

Future Ready Family Zone



6:00–7:30 pm

at Middle Road School



Calling all Future Ready families! (Grades 1-6)

Future Ready Family Zone is a student-centered workshop where families will participate in hands-on activities, which include problem solving, creativity, and teamwork. This workshop will provide students with invaluable opportunities that promote critical thinking and real-world problem solving. They will take on challenges where they will learn to question, explore, and experiment.

(Maximum 3 classes per family and each class will be capped at 12 families.)



Tuesday, February 18th- “All You Need Is Love”

Tuesday, February 25th- “Winter Wonderland”

Tuesday, March 3th- “Oh! The Places You’ll go!”

Tuesday, March 10th- “Bring on the Madness”

Tuesday, March 17th- “Lucky Leprechauns”

Tuesday, March 24th- “Spring is In the Air”



READY

Future Ready helped us provide our community with a successful plan for virtual instruction when we had to close in March because of the awareness and investment the district made in the infusion of technology. Teachers and students were not afraid of technology we had or afraid to look for alternatives. Each year at budget time our principals pleaded to get more chromebook carts for our elementary buildings, this proved to be so valuable on so many levels.



WHY DID IT WORK?

First, we had the necessary devices to supply students who needed them.

Second, our students were comfortable with what was being asked of them at home because they were using their chromebooks on a regular basis at school.

From there the District built on with new software programs and professional development for our staff.

September 2020 – Hazlet hit the ground running with our students in school or learning from home if they choose.





CONTACT INFORMATION



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