



# Board of Education

---

**March 5<sup>th</sup>, 2026**

# Agenda

---

## Superintendent's Report

- Math Program Review
- Facilities Update
- PreK Lottery



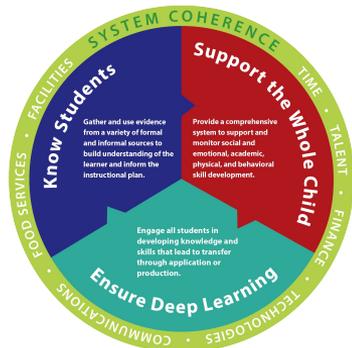
# Foundation

Mission

Core Beliefs

Key Drivers

District Development Plan



## Our Mission

It is the **Mission** of the Mansfield Public Schools, in partnership with the Mansfield community, to ensure that each and every child develops the knowledge, skills, and dispositions essential for civic engagement and personal excellence in learning, life, and work within our local and global community.



## Core Beliefs



**Lead with equity.** We believe that children must be supported to learn and develop in a safe, antiracist environment free from discrimination, bias, and prejudice against all people where conscious efforts and intentional actions ensure equitable opportunities.



**Develop the whole child.** We believe schools have an obligation to teach academic and social skills while nurturing the emotional, physical and behavioral development of all children.



**Ensure active learning.** We believe students learn best when they engage in joy-filled, empowering, intellectually challenging, and personalized experiences that deepen understanding of the world while building academic and social-emotional skills.



**Build partnerships.** We believe engaging families and the community as equal partners is necessary to fulfill the mission and vision of Mansfield Public Schools.



**Prepare global citizens.** We believe schools must develop young people to be stewards of their community, nation, and the larger world around them by instilling the skills needed to contribute to a peaceful society and sustainable world.



**Grow educators.** We believe that providing an environment that allows for inquiry, supports risk taking, provides for continuous learning, and attends to the whole person is as important for educators as it is for students.

# Gr. 6-8 Math Program Review

---





# Math Program Review (Gr. 6-8)

$$y = \frac{x^2}{x} + ch$$

- 🕒 15 years since the last math program review
- 👥 Middle School Math Team convened
- ⚓ Review process is anchored in our foundational math documents
- 🔍 Reviewed 8 programs, but ultimately narrowed it down to Illustrative Mathematics and Amplify Desmos Math
- 🚀 Piloted one unit from Illustrative Mathematics and Amplify Desmos Math
- ✅ Final Recommendation - **Amplify Desmos Math**

$$n^2 = \frac{2n-c}{4}$$



$$f(x) = \sqrt{m^2}$$



# Math Programs Reviewed



Amplify Desmos Math



Illustrative Mathematics



Reveal Math



Inspiring Connections



Open Up Resources



Stemscopes Math



Core Math by EdGems

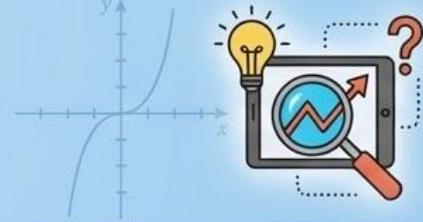


Agile Mind

Knowing Students - Supporting the Whole Child - Ensuring Deep Learning



# Math Programs Piloted



Amplify Desmos Math



## Illustrative Mathematics

Illustrative Mathematics is a problem-based program that fosters the development of mathematics learning communities in classrooms and provides students access to the mathematics through a coherent progression.

$$x^2 = \frac{x}{2}$$



## Amplify Desmos Math

Amplify Desmos Math is designed around a structured, problem-based framework that harnesses student curiosity through an inquiry-based model for making sense of mathematics.



# Math Program Review Timeline

October 14th 2025  
Evaluate presentations from  
4 vendors and decide on 2  
programs to pilot.

Nov/Dec 2025  
Pilot the unit & assess  
using our program  
assessment tool

Dec/Jan 25-26  
Pilot the unit & assess  
using our program  
assessment tool

March 2026  
Present to BOE

May 28th Half Day  
Review programs and  
narrow it down to 5  
programs we want to  
hear more about.

Oct/Nov Half Day  
Review the background  
and structure of the  
program. Prep/Plan for  
the upcoming unit.

Nov/Dec Half Day  
Review the background  
and structure of the  
program. Prep/Plan for  
the upcoming unit.

February 2026  
Review survey results and  
share pros/cons.  
Committee makes a  
recommendation.



# Mathematical Content & Practices

## Connections to Future Learning

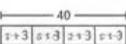
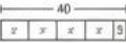
Here is how the content in this unit connects to where your students are headed on their math journeys.

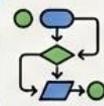
### Solving Equations

In this unit, students use tape diagrams, tables, double number lines, and equations to solve problems involving percentages. In Math 7, Unit 6, students will use tape diagrams and other representations to solve equations.

Standard Addressed: 7.EE.B.4.A

#### Example:

Situation	Equation	Solution	Tape Diagram
Some decks of playing cards in Italy and Spain have 40 cards. There are four suits. Each suit has 3 face cards and a non-face card.	$40 = 4(x + 3)$	$x = 7$	
A chef at a Burmese restaurant makes 40 quarts of mohinga, a noodle and fish soup. She uses 3 quarts now and divides the rest equally into 4 containers to freeze.	$40 = 4x + 3$	$x = 9.25$	



Clear progression of mathematical concepts



Student work drives discussions



Structured Problem-based approach



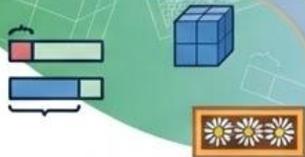
Accessible to all students



# Organization & Structure

## Unit 4 Dividing Fractions

Students extend what they learned about dividing whole numbers to divide fractions by fractions. They answer questions like “How many groups?” or “How many in 1 group?” They use a variety of strategies, arrange making tape diagrams, creating common denominators, and rewriting equivalent multiplication problems using the reciprocal.



Pre-Unit Check (Optional)	381M	
<b>Sub-Unit 1</b> Introduction to Dividing Fractions	342	
4.01 Cookie Colter (Optional)   Estimating Quotients	242A	Building Toward 5.NF.A.1, NF.NF1, NF2
4.02 Division Meanings   Representing Division Situations	250A	C.RE.A.1.NF.C, NF7
4.03 Flour Planters   How Many Groups? Part 1	268A	C.RE.A.1.NF2
4.04 Flower Planters   How Many in Each Group?	266A	C.RE.A.1.NF.C, NF2, NF7, NF8
<b>Sub-Unit 2</b> Dividing Fractions	274	
4.05 Garden Bricks   How Many Groups? Part 2	275A	C.RE.A.1.NF.C, NF2, NF8
4.06 Fill the Cap   More to Less Than One Group?	362A	C.RE.A.1.NF.C, NF2, NF7, NF8
4.07 Break K Down   Using Common Denominators to Divide Fractions	390A	C.RE.A.1.NF.C, NF2, NF7, NF8
4.08 Petting Sell   Dividing Least Fractions	422A	C.RE.A.1.NF.C, NF2, NF7, NF8
4.00 Division Challenges   Three Soanages for Dividing Fractions	421A	C.RE.A.1.NF.C, NF2
4.10 Action Fractions   Finding Fraction Division in Multiplication	411A	C.RE.A.1.NF1, NF2, NF3
4.11 Suxp Meet   Division of Fractions in Contexts	422A	C.RE.A.1.NF.C, NF2, NF7, NF8
Practice Day 1	428A	C.RE.A.1.NF2
Sub-Unit Quis	4308	



Priority math standards are the focus  
Mathematical reasoning emphasized



Student as learners through discovery



Lesson Structure emphasizes  
students “doing math”

# Student Experiences



Students are active learners



Multiple models to ground student understanding



Emphasizes mathematical discourse and collaboration

# Teacher's Role & Equity



Suggestions provided for facilitating discussions



Focused on sense making, persevering and thinking flexibly



Suggestions for teacher reflection



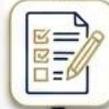
# Assessment



## D Differentiation (End-of-Unit Assessment)

Note: To strengthen and stretch students' learning, refer to the differentiation resources suggested throughout this unit and in the Unit Overview.

Sub-Unit Goals	Problem(s)	To respond to student thinking, consider:
Add and subtract positive and negative numbers using a variety of strategies. (Lessons 1–3)	1-2	<b>Support</b> <ul style="list-style-type: none"><li>Using the <i>Adding and Subtracting Positive and Negative Numbers Mini-Lesson</i>.</li><li>Revisiting <b>Lesson 2</b> (<i>More Floats and Anchors</i>).</li><li>Revisiting <b>Lesson 4</b> (<i>Draw Your Own</i>).</li></ul>
Perform all four operations with positive and negative numbers using a variety of strategies. (Lessons 6–10)	3	<b>Support</b> <ul style="list-style-type: none"><li>Revisiting <b>Lesson 9</b> (<i>Expressions</i>).</li><li>Revisiting <b>Practice Day 2</b> Task C.</li></ul>
	4	<b>Support</b> <ul style="list-style-type: none"><li>Using the <i>Dividing Integers Mini-Lesson</i>.</li><li>Revisiting <b>Lesson 7</b> (<i>Back in Time</i>).</li><li>Revisiting <b>Lesson 10</b> (<i>Integer Puzzles</i>).</li></ul>
	6	<b>Support</b> <ul style="list-style-type: none"><li>Revisiting <b>Lesson 8</b> (<i>Speeding Turtles</i>).</li><li>Revisiting <b>Lesson 10</b> (<i>Integer Puzzles</i>).</li></ul>
Apply all four operations with positive and negative numbers to analyze changes in our environment. (Lessons 11–13)	5, 7	<b>Support</b> <ul style="list-style-type: none"><li>Using the <i>Solving Real-World Problems Involving Positive and Negative Numbers Mini-Lesson</i>.</li><li>Revisiting <b>Lesson 8</b> (<i>Speeding Turtles</i>).</li><li>Revisiting <b>Lesson 12</b> (<i>Visiting the Arctic</i>).</li></ul>



Formative assessments integrated throughout



Multiple opportunities to demonstrate thinking.





# Math Program Review Recap

*Knowing Students - Supporting the Whole Child - Ensuring Deep Learning*



## Process & Piloting

Program review completed:  
Spring - Winter 2025-2026

Gr. 6-8 MMS Math Team collaborated

Two high quality programs piloted:

 Illustrative Mathematics &

 Amplify Desmos Math



## Findings & Recommendation

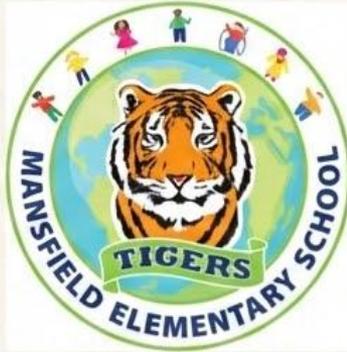
Findings confirmed Amplify  
Desmos Math is the strongest  
core resource.



### **Committee Recommendation:**

Implement Amplify Desmos Math  
as our **core math resource** for the  
26-27 School Year.

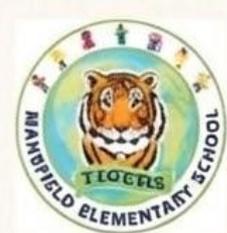
# Mansfield Elementary School



## Full Day Pre-K

March 5, 2026

Mansfield Board of Education Meeting



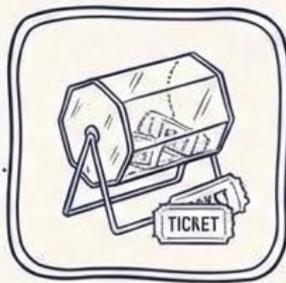
# Agenda



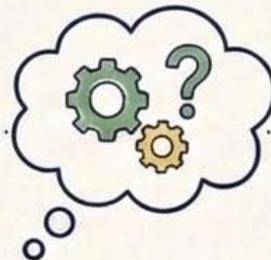
**Current  
Program**



**Enrollment**



**Lottery  
Process**

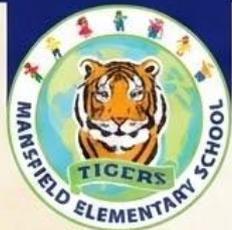


**Considerations**



**Next  
Steps**

Knowing Students - Supporting the Whole Child - Ensuring Deep Learning



# Enrollment Plan



Age 3 IEP/Partial Day



**7**

Age 4 IEP Full Day



**13**

Child Find



**3**

Lottery



**27**

Total

**50**

Average Class Size 16-17





# Current Program



All three classrooms are Full Day



Students age 3 with IEPS have modified partial day programs.

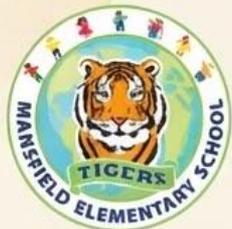


Students are shared across classrooms in the WIN (**What I Need**) block



Play Based focus with Kindergarten Readiness Academics





# Lottery (Equitable Access)



## Priority Placement

Students with IEPs requiring school-based services are placed first.



## Age Eligibility

Open to all children who are 4 by Sept. 1, 2025.



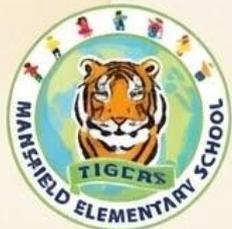
## FRL Application

All applicants must complete the Free and Reduced Lunch application.



## Weighted Selection

FRL threshold applicants receive a 1.5x weighting factor for increased opportunity.



# Considerations



## Meeting Needs (IEPs)

Create flexible schedules that maximize on providing special education services while recognizing some students will require a shortened day.



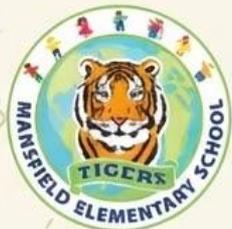
## Lottery Seats & Waitlist

Overall reduction in seats from the former half-day programs.  
Longer waitlist.



## Staffing Support

Continued support for appropriate staffing.



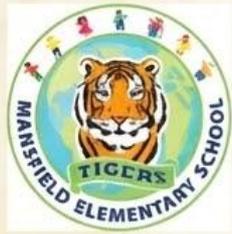
# Next Steps

## Timeline:

- **March:** Communication about Lottery on Website
- **April 1, 2026** Lottery applications open
- **May 19, 2026** Deadline to submit Lottery Application
- **May 26, 2026** Lottery Completed and Families Notified
  - All additional applications and those not selected will be place on a waitlist.



All additional applications and those not selected will be place on a waitlist.



# Questions



# Facilities Update

---



# Completed Projects since Summer 2025



## Mansfield Elementary School

-  Playground Resurfacing
-  Installation of We-Go-Round
-  Sunshade Cover by  
Playground
-  Water Treatment System
-  Fencing Along Property Line
-  Retention Pond Corrections



## Mansfield Middle School

-  Main Entrance Redesign
-  Elevator Installation
-  Floor Refinishing (Music Wing)
-  HVAC on the 3rd Floor and Gym
-  Solar Panel Anchoring on Roof
-  Sign Replacement
-  Locker Refurbishing (locks,  
painting, etc.)



# Projects Underway



## Mansfield Elementary School



### Window Film

- Cafeteria
- Kindergarten classrooms



### Landscaping

- Plantings and Gravel Replacement



## Mansfield Middle School



### HVAC System Calibration



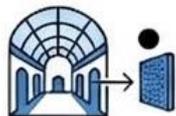
### Window Film

### Library Media Center



# Summer 2026 Projects

## Mansfield Elementary School

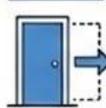


### Great Hall:

- Install acoustic panels
- Install window film



- Replace wallpaper and corner guards throughout building



## Mansfield Middle School

- Cafeteria Redesign
- Replace Flooring (2nd floor)
- Renovate LMC Bathrooms
- Remove Portable Building (circa 1992)
- Begin replacement of interior doors



# Summer Projects

June 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**43 Days**

August 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Summer Projects Include:

- Scheduled Renovations/Demolitions
- Summer Cleaning
- Building Maintenance & Repairs

- Staff Days
- Summer School
- Last Day of School
- Start of School
- Holiday



# Capital Improvement Projects



	FY 26 25-26	FY 27 26-27	FY28 27-28	FY29 28-29	FY30 29-30	
<b>Capital Projects</b>						
Removal of Portables		60k				
Parking Lot Paving / Drainage	\$75k					Projects Completed by end of 25-26 yr
Cafeteria Refresh (Front of house)						
Old Main Entrance (Replace Storefront)	\$38k					Initial Project Phase
Elevator Install						
HVAC on 3rd Floor						
Window Replacements			1.1M	1.1M		
Update Bathrooms LMC	\$14k					
Complete 2nd Floor epoxy Flooring on 1st Floor	\$283k					
Interior Doors Refresh		\$300k				
Internal Access to Roof		64k	64k	64k		
Septic field - drainage					\$10k	
Regrade fields					\$20k	
Reimagine 99-100 courtyard			\$25k			
Boiler Replacement (Circa 2009)		\$50k				
DOAS Unit Replacement (Circa 2009) 4 units		\$200k	\$200k			
Refurbish Auditorium Seating				200k	200k	
			\$35k	\$35k	\$35k	

# Nine Year Review Of Capital Projects

## 2017-2018



MMS

- Gym Locker Room Renovation
- Gym Floor Asbestos Abatement
- Gym Renovation (floors/bleachers/scoreboards/sound system)
- Classroom Cabinetry



## 2018-2019



MMS

Elementary

- Bathroom Renovations
- Fire Alarm Panel Replacement
- Time Clock System
- Classroom Cabinetry
- Sidewalk Repairs
- School Building Study



## 2019-2020



MMS

- Bathroom Renovations
- Water Fountain Replacements
- Auditorium Sound System Upgrade
- Tennis Courts Removed
- Classroom Cabinetry



## 2022-2023



MMS

- Roof Project
- Exterior Doors
- Classroom Cabinetry



## 2021-2022



MMS

- Replacement of Exterior Doors
- Generator Replacement
- Replace Auditorium AC Units
- Classroom Cabinetry



## 2020-2021



MMS

- Replacement of Exterior Doors
- Classroom Cabinetry
- Carpet Upgrades



MES

- Begin Construction of New Elementary School



## 2023-2024



MMS

- Auditorium Lighting
- Solar Panels
- 3rd Floor Flooring
- Locker Painting
- Classroom Cabinetry
- Parking Lot Line Painting
- Mini Splits in Rooms 303 & 304
- HVAC Design
- Air Quality Testing



MES  
Bike Trailer



## 2024-2025

MMS & MES

- Sidewalk repairs
- Locker Painting/Lock Replacement
- New School Sign
- Floor Refinishing



MES

- Fence installation



(MES)

- MMS & MES Radio Antenna Installation



## 2025-2026



MMS

- Floor Refinishing
- Security Project (Office, Front Entrance, Elevator Installation)
- Cafeteria Renovation
- HVAC 3rd floor and Gym



# Mansfield Elementary School Net-Zero Building

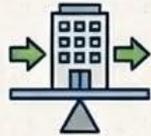
In Connecticut, a net-zero energy school is defined as a high-performance building that maximizes energy efficiency and utilizes on-site, Class I renewable energy sources (such as solar or geothermal) to produce as much energy as it consumes on an annual basis.

- Definition comes from legislative initiative (Senate Bill 961)





# What does Net-Zero Energy mean?



## THE DEFINITION

A net-zero energy building produces as much energy as it uses in a year.

## HOW IT'S ACHIEVED



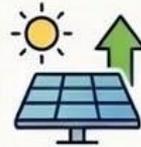
### 1. MAXIMIZE ENERGY EFFICIENCY

Make the building as energy efficient as possible

Building efficiency is measured as Energy Use Intensity (EUI)

$$\frac{\text{Total energy consumption}}{\text{gross building area}} = \text{EUI (kBTU/ft}^2\text{/yr)}$$

**Goal: EUI < 20 kBTU/ft<sup>2</sup>/yr**



### 2. PRODUCE CLEAN ENERGY

Produce electricity equal or greater than electricity used through the use of photovoltaic panels

$$\text{Total energy production} - \text{consumption} = \text{Net Zero Energy}$$

# Benefits of a Net-Zero Energy School



## Minimize carbon emissions to the atmosphere

MES does not use fossil fuel. All heating/cooling and kitchen systems are electric.



**Cost savings for energy is one factor, but minimizing carbon emissions was the primary goal.**

Note: Net-Zero Energy does not equal net zero electric cost!



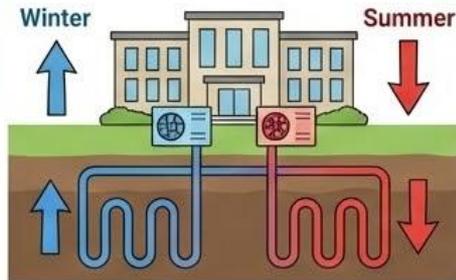
**The building itself becomes a teaching tool for our students**



**It also serves as an example for other municipalities**

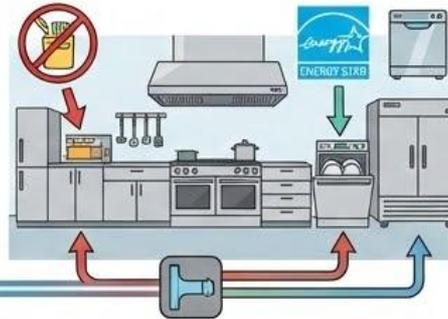
# Energy Saving Systems

## Geothermal + Heat Pumps



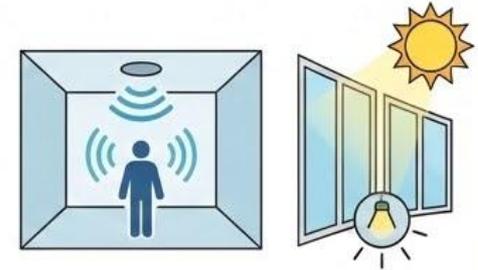
**Efficient heating and cooling.**  
Heat is drawn from system to building in winter, heat disposed in summer.  
Geothermal system gives building a "circulatory system" for disposing heat from kitchen.

## Kitchen Design



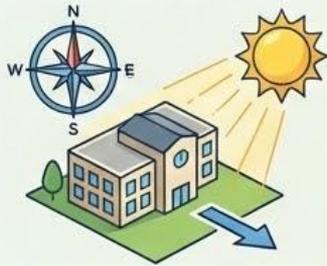
**Reduces energy use.**  
Eliminated fryolator, allows smaller hood vent.  
Efficient appliances.  
Heat from compressor for walk-in coolers and from dishwasher is shuttled to geothermal system.

## Lighting & Occupancy



**Room occupancy detectors** reduces energy use in empty rooms.  
**Maximize natural light.**  
Light sensors adjust artificial LED light levels as needed.

# Building features that minimize energy consumption



## Shape and orientation

Strategic placement to maximize natural light and passive heating.



## Envelope

A high-performance, continuous barrier to prevent heat loss.



## Energy saving systems

Integrated technologies like smart lighting and efficient HVAC.



## Create tight, well insulated envelope



Maximize insulation and thermal properties



Conducted leak tests during construction of envelope and blower-door test upon completion

# Energy Production

## Key Concepts



Energy is produced by PV array



Net metering measures energy drawn from or returned to grid

## Rooftop PV Array



# Mansfield Elementary School Solar Data



## Total Energy Used



## Solar Energy Generated



\*Data is through February 4, 2026



# Energy Costs



## Eversource Energy Supply Rate:

Supply rate/kWh June 2019 =  
\$0.09040

Supply rate/kWh June 2024 =  
\$0.14954

**Increase of 65.4%**

## Total Costs by Fiscal-year (Elementary School)



# Mansfield Middle School Solar Data

## Roofing & Solar Project



Solar panel installation  
part of roofing project

## State Offer & Capacity



**100KW**

State offered to supply up  
to a 100KW system as  
part of roof project

# Mansfield Middle School Solar Data



**July 28, 2023 -  
June 30, 2024**

Energy Generated:  
**114.18 MWh**



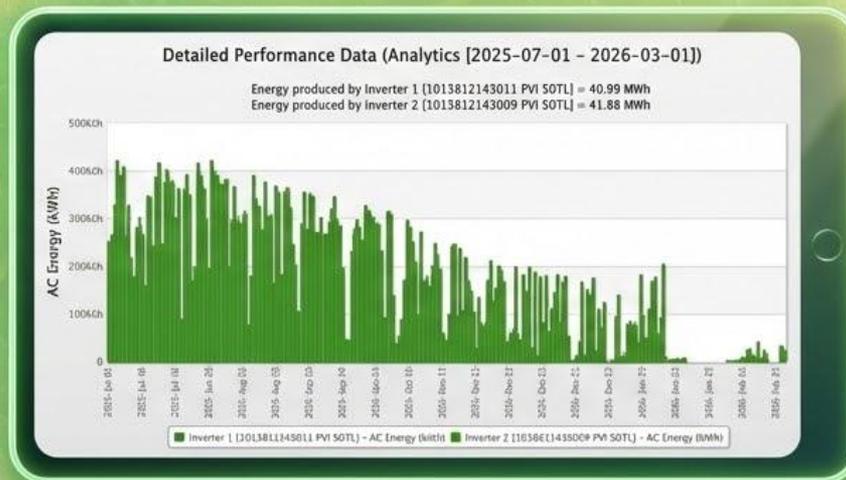
**July 1, 2024 -  
June 30, 2025**

Energy Generated:  
**151.68 MWh**



**July 1, 2025 -  
March 1, 2026**

Energy Generated:  
**82.87 MWh**



# MES Water Mitigation System

## System Status & Monitoring

- System **operational** since late August
- Daily system **monitoring** by CT Water



## Test Results & Sampling

- **December test results:** Lead and copper below actionable levels
- **Sampling Process:** 20 water samples collected across the building over 4–5 days
- Water testing conducted **twice per year**
- Testing reduces to **once per year** after three consecutive monitoring periods below actionable levels

[December Water Report](#)



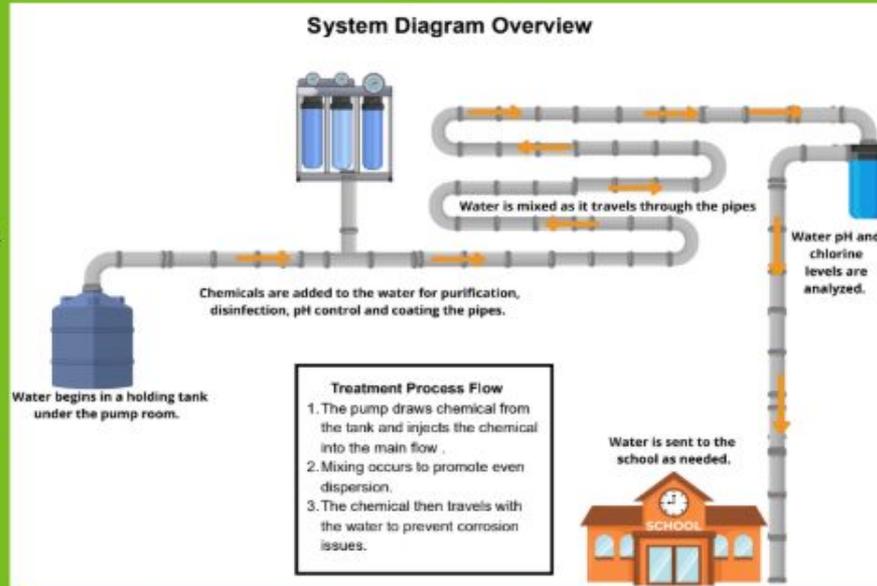
## How does the Optimal Corrosion Control Treatment (OCCT) chemical injection system work?

An Optimal Corrosion Control Treatment (OCCT) chemical injection system is designed to protect water infrastructure by carefully adding small, controlled amounts of treatment chemicals into the water system to reduce corrosion and maintain water quality. The system operates by drawing a concentrated corrosion control chemical from a storage tank and injecting it into a water pipeline through a precision dosing pump. This pump delivers the chemical at a calibrated rate so it mixes thoroughly with the flowing water and provides consistent protection to pipes, fixtures, and other system components.

The system includes valves and control mechanisms that regulate flow and respond to pressure differences between the injection line and the main water line, ensuring the chemical is introduced safely and effectively. Injection typically occurs through an injection point or quill that extends into the pipe, allowing even distribution and preventing localized corrosion or wear. Monitoring equipment such as flow meters and level sensors continuously track chemical usage and dosing accuracy, helping operators maintain optimal treatment levels, comply with regulatory standards, and avoid issues such as pipe corrosion, scale formation, or costly maintenance problems. Water testing occurs on a quarterly basis.

### System Components

- **Storage Tank:** Holds the concentrated treatment chemical (e.g., orthophosphate for water).
- **Injection Pump:** A precise dosing pump (sometimes solar-powered) draws from the tank and pushes the chemical into the system.
- **Valves & Controls:** Ball valves manage flow, while specialized valves (like injection valve ports) open based on pressure differences between the injection line and the main pipe, allowing chemical entry.
- **Monitoring:** Flow meters and level controllers ensure accurate dosing and detect issues, reducing maintenance.



Pump Room

### Water Testing Report

12/8/2025

Copper Levels well below actionable level. (Range .277-.333)

\*Actionable Level (AL): 1.3

**Full Report**



**HOW MANY SNOW DAYS  
HAVE WE HAD?**

**5**

**AS OF 2/26/2026, OUR LAST DAY  
OF SCHOOL FOR STUDENTS IS:**

**JUNE 19, 2026**



Juneteenth will be observed in a  
manner similar to Veterans Day.