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NEW HAVEN PUBLIC SCHOOLS

Math Plan September 2022

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Standards of Mathematical Practice	
Make sense of problems and persevere in solving them	Use appropriate tools strategically
Reason abstractly and quantitatively	Attend to precision
Construct viable arguments and critique the reasoning of other	Look for and make use of structure
Model with mathematics	Look for and express regularity in repeated reasoning

K - 12

Progress Monitoring Tool	What data is being collected?	Assessment Type (screener, diagnostic, formative, summative, etc.)	How is the data being collected?	How often is the data being collected?
iReady Math (K-5) Includes 6th grade in schools using iReady for grade 6	The benchmark assessments are given to students to gather baseline data and then to monitor growth over a period of time toward	Progress monitoring for mathematical standards	iReady Assessment portal	3x/year (fall, winter, spring)

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	standard-based learning. The results are used to determine the skills to be tracked for each individual learner.			
IXL Universal Screener (7-12) Includes 6th grade for schools using enVisions for grade 6	The benchmark assessments are given to students 7-12 to gather baseline data and then to monitor growth over a period of time toward standard-based learning. The results are used to determine the skills to be tracked for each individual learner.	Diagnostic	IXL Snapshot Diagnostic on ixl.com	3x/year (fall, winter, spring)
District Unit or Quarterly Assessments	Item-analysis of student performance	Formative, summative		
Interim Assessment Blocks (IABs)	The IABs are given to students in grades 3-8 to gather information about students' content knowledge of specific concepts.	summative	CT Portal System	3x/year (Q1, Q2, Q3)

K-12 Data Analysis and Decision-Making

How often is the data being reviewed and by whom?	What solution-oriented processes are in place to make decisions?	What steps is the District taking to see building and classroom level data? How is the District sharing findings with individual schools?	Who at the District level is responsible for providing plan implementation support and follow-up?
<p>Weekly K - 8 Grade Level Meetings</p> <p>Monthly Department Meetings in grades 9 - 12</p> <p>School Quality Reviews (twice a year)</p>	<p>Data Teams</p> <p>Building Leadership Data Teams</p> <p>District Data Teams</p> <p>State Monitoring Meetings</p> <p>Scientific Research-Based Interventions</p>	<p>Implementation of DecisionEd (Projected Jan 2023)</p> <ul style="list-style-type: none"> ● All staff will have access to data daily <p>Sharing</p> <ul style="list-style-type: none"> ● Bi-Annual Principals and Assistant Principals Meetings ● Superintendent's annual data meeting 	<p>Math Supervisor</p> <p>Assistant Superintendents</p> <p>District Math Coaches</p>

School Level Leadership

Practice	Who ensures that the practice is informed by a specific purpose?	How is the purpose communicated?	How often is the data collected?	How often is the data being reviewed and by whom?	How is the data being shared and by whom?
Classroom Walkthroughs	Executive Team and school level leadership set the purpose for walkthroughs to align with professional development and district math plan.	<p>The Content Supervisor met with the Executive Team to review the K-12 Math Plan to identify the year around the 8 Standards of Mathematical Practice, and the district focus of small group instruction. School level leadership teams then will meet and ensure the school staff will be informed.</p> <p>The “Look Fors 2.0” document will provide guidance</p>	<ul style="list-style-type: none"> • TBD by school • Daily logs • Monthly coaching logs 	<ul style="list-style-type: none"> • Bldg Leadership Team Meetings. to share school wide trends • Trends addressed at Grade Level Team Meetings • Data from schools are shared through District Math Coach Meetings 	<ul style="list-style-type: none"> • TBD by school • Weekly • Bimonthly

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<p>Feedback on Data and Practice</p>	<p>Assistant Superintendents and school leadership teams will define how feedback is shared with school teams to set clear goals for growth.</p>	<p>School leadership will leverage the 7 Week Progress Monitoring schedule and weekly grade level meetings to review data sets, create growth plans and clearly articulate expectations for best practice strategies taught within PD</p>	<ul style="list-style-type: none"> ● TBD by school schedule for Bldg. Leadership ● Every 7 Weeks 	<ul style="list-style-type: none"> ● Leadership shares at school wide meetings, grade level meetings and with SPMT. 	<ul style="list-style-type: none"> ● TBD by school ● Every 7 Weeks
<p>Monitoring of Plan Implementation</p>	<p>Content Supervisor will set the plan and criteria for reviewing alignment to the reading plan.</p>	<p>School leadership teams will monitor school plans for alignment to the math plan. Coach Meetings will have allotted time to review evidence of instructional alignment to the math plan.</p> <p>Superintendent Meetings will have an allotted time to review evidence of instructional alignment to the math plan.</p>	<ul style="list-style-type: none"> ● Weekly ● Bimonthly ● Monthly 	<ul style="list-style-type: none"> ● The data is reviewed continually by district and school leadership through school visits, reviews and ongoing professional development and small group meetings. 	<ul style="list-style-type: none"> ● Weekly ● Bimonthly ● Monthly

Professional Development

Topic	Audience	Timeline	Expected Outcome
Using Reflective Practices to Enhance Instruction	Math Coaches	August, 2022	<ul style="list-style-type: none">● Describe productive actions and beliefs about teaching and learning math and how they come to life in <i>i-Ready Classroom Mathematics</i>.● Critically reflect on their practice and characterize strengths to build on and shifts they might want to make.● Identify steps to take and tools to use to enhance instruction.
Promoting Strong Mathematical Conversations	K-5 Math Teachers	TBD	<ul style="list-style-type: none">● Use the Try–Discuss–Connect routine to build student ownership, perseverance, and a deep understanding of mathematics.● Create a mathematics community where students justify their reasoning and respond to the reasoning of their peers.● Plan to elevate mathematical conversations by

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			implementing Teacher Moves.
Building Inclusive/Productive Math Communities	Still exploring	TBD	Teachers will learn strategies to support building inclusive and productive math communities in their classrooms.
EnVisions training (in-person)	6-12 math teachers	September, 2022 - June, 2023	Outcomes TBD based on teacher and coach need
EnVisions training (online tutorials and webinars) https://mysavvastraining.com/products/envision-2018-aga-cc/tutorials Topics are grouped in the following categories: Virtual Program Activation (2) Getting Started (7) Using Savvas Realize (4) Recorded Webinars (4) Ready for Instruction (2) Assessments and Reporting (2) Additional Resources (4)	6-12 math teachers and coaches	August, 2022 - June, 2023	Outcomes include: <ul style="list-style-type: none">● Dive in to print components and digital resources on Savvas Realize; Learn the key elements of the enVision Mathematics topic and lesson structure through planning a lesson; Explore innovative ways to strengthen your instruction and increase student engagement through classroom observations and program components.● Dive in to digital resources on Savvas

			<p>Realize; Learn the key elements of the enVision A G A lesson structure; Explore innovative ways to strengthen your instruction and increase student engagement through classroom observations and program components.</p> <ul style="list-style-type: none"> ● Explore enVision © 2018 A G A Common Core program components, instructional design, resources, and teacher support tools. ● Learn more about Savvas Realize navigation, Realize and Google Classroom Integration, Realize Reader, and Progress Monitoring and Reporting Tools on the Savvas Realize platform.
iReady training	K-6 math teachers	August 2022 - June, 2023	<ul style="list-style-type: none"> ● Utilize the curriculum to provide engaging lessons
Monthly New Teacher PLC's	New (1st year in New	October, 2022 - June, 2023	<ul style="list-style-type: none"> ● Deliver rigorous,

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	Haven) Math Teachers grades 6-12		standards-based instruction <ul style="list-style-type: none">● Implement math curriculum with fidelity● Use researched based instructional strategies for classroom management, discourse, student engagement, problem solving, etc.
Monthly New Coach PLC's	New Math Coaches	September, 2022 - June, 2023	<ul style="list-style-type: none">● Use the cognitive coaching cycle to support teachers in their classroom● Use best practices to effectively communicate with peers● Be an active and effective part of a school-wide leadership team
Additional PD TBD	Teachers, coaches, administrators, parents	September, 2022 - June, 2023	Outcomes TBD

Math Coaches provide support by doing the following:

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- Modeling lessons for teachers
- Observing teachers and providing actionable feedback
- Lesson planning with teachers
- Facilitating Data Team Meetings
 - Analyzing data
 - Keep administrators informed of math data
 - Partner with teachers to use data to inform instruction
- Working with students in small groups
- Providing site based math PD
- Conduct coaching cycles

Family Engagement

- Math handouts for K and 9th grade shared with families during canvass
- Develop and disseminate literature that includes strategies for developing/practicing mathematical thinking and application outside of school
- School and/or Community based family STEM events
- Applications of learning, games, and projects
- How can parents promote STEM learning at home?
- Provide “Parent Pointers” for varied age levels
- Flood the community with math learning - churches, barber shops & beauty salons, grocery stores, pediatrician’s offices, etc.
- Quarterly family engagement activities

District Non-Negotiables

- Small group instruction
- Progress monitoring of small groups
- Adherence to the curriculum
- Mathematical discourse