

Mastery Based Learning for Mathematics at Henry Abbott Technical High School

Sasha Salem

Related Education Department Head

Introductions

Welcome to Henry Abbott Technical High School!

Please feel free to contact me should you have questions or concerns regarding your child's progress in Mathematics.

I strongly encourage you to speak with your child's Mathematics teacher as they are closely attuned to your child's performance.

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Vision for Mastery Based Learning Model for Mathematics

The CTHSS has adopted a new model that challenges the traditional mind set of teaching and learning mathematics. Our model of mastery based learning is a dramatic change to what students, parents and teachers experienced in the past.

Our Model for Mastery Based Learning

We are defining Mastery Based Learning as:

Achievement at a predetermined level of proficiency (70% or better) in one unit of a course before moving on to the next unit.

Cultivating independent learners facilitated by teacher and peers within a Blended Learning Environment.

Movement through the curricula at a pace that matches your child's rate of learning.

The ALEKS Program

We integrate the use of the ALEKS software into the learning and assessment of each course. This allows for:

Independent learning (with peer and teacher support)

Exposure to content at student readiness

Immediate feedback

Practice of math skills

Account Information



[Redacted]

Last Login Date:
06/08/2016Access Expires:
06/07/2016[Extend Student Accounts](#)[Account Summary »](#)

ALEKS Pie

[View Full Report »](#)

Current Objective

All Objectives are unlocked.
Any Ready To Learn Topic in any Objective can be worked on.

[View Full Report »](#)

Timeline

Topics

350

24.5

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[View Detail »](#)

This Week's Activity

Sep 5 - Sep 11

Time Spent

0m 0s

Topics
Learned

0

Topics Attempted,
Not Learned

0

[View All »](#)

Time and Topic - Learning Mode

Topics

Time (minutes)

20	20
15	15
10	10
5	5
0	0

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[View All »](#)

The Classroom

We hope to foster independent and collaborative learning and problem solving. If you walked into your child's classroom you may observe him/her participating in some or all of the following:

Independent, peer and/or teacher supported ALEKS work

Instruction by teacher in small/large group or station settings

“Hands-on” learning to promote conceptual understandings

Grading

Each marking period your child will receive a pass/fail for math which does not contribute towards credit for the course

The marking period grade is based on growth and effort

After your child masters all units of the course s/he will be awarded credit and a numerical grade equivalent to the average of all units

The final grade is based on proficiency in district summative assessments, final knowledge checks and performance tasks

Grading

It is possible that your child can earn a passing grade for all four marking periods but not complete the course nor earn credit by June.

Earning credit is tied directly to performance on the assessments linked to the course. Your child must meet mastery levels on all units of the course in order to earn credit.

Grading

Those students who do not finish the course by the end of the school year are encouraged to continue learning throughout the summer using ALEKS as a resource and in the fall of the next school year.

Conversely, students can complete more than one course in a school year.

We encourage students to work at their own pace. However, students must complete the minimum pacing guide requirements in order to graduate.

Pathways for Meeting Graduation Requirements for Mathematics

Minimum for Graduation	Career Pathway	College-prep Pathway	More Competitive College-prep
3-Credit pathway	4-credit pathway	4- credit college prep pathway	4-credit Honors Pathway
<ul style="list-style-type: none"> · Algebra I · Geometry or Algebra II · Business math with Algebra 	<ul style="list-style-type: none"> · Algebra I · Algebra II · Geometry · Business math with Algebra 	<ul style="list-style-type: none"> · Algebra I · Algebra II · Geometry <p><u>One of the following Electives</u></p> <ul style="list-style-type: none"> · Advanced Algebra · Trigonometry 	<ul style="list-style-type: none"> · Honors Algebra I · Honors Algebra II · Honors Geometry <p><u>One or more of the following Electives</u></p> <ul style="list-style-type: none"> · Honors Pre-calculus · Honors Trigonometry

Pacing Guide to Meet CTHSS Graduation Requirements

End of the Marking Period	Minimum Pacing to meet CTHSS Math Graduation Requirements	Minimum Pacing to meet proper preparation to enter college in credit bearing course.
9:1	<ul style="list-style-type: none"> Developing Foundational Skills 	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1, and 2 (70%)
9:2	<ul style="list-style-type: none"> Developing Foundational Skills 	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1, 2, and 3 (70%)
9:3	<ul style="list-style-type: none"> Completion of all assessment tied to Algebra I Goal 1 (70%) 	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1, 2, 3 and 4 (70%)
9:4	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1 and 2 (70%) 	<ul style="list-style-type: none"> Complete Algebra I (Goals 1-6 at 70%)
10:1	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1, 2, and 3 (70%) 	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1, and 2 (80%)
10:2	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1, 2, 3 and 4 (70%) 	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1, 2, and 3 (80%)
10:3	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1, 2, 3, 4 and 5 (70%) 	<ul style="list-style-type: none"> Completion of all assessments tied to Algebra I Goal 1, 2, 3 and 4 (80%)
10:4	<ul style="list-style-type: none"> Earn credit for Algebra I (70%) 	<ul style="list-style-type: none"> Complete Algebra II (Goals 1-5 at 80%)

Pacing Guide to Meet CTHSS Graduation Requirements

End of the Marking Period	Minimum Pacing to meet CTHSS Math Graduation Requirements	Minimum Pacing to meet proper preparation to enter college in credit bearing course.
11:1	<ul style="list-style-type: none"> Completion of all assessment tied to Geometry Goal 1 and 2 (70%) 	<ul style="list-style-type: none"> Completion of all assessment tied to Geometry Goal 1 and 2 (70%)
11:2	<ul style="list-style-type: none"> Completion of all assessment tied to Geometry Goal 1, 2 and 3 (70%) 	<ul style="list-style-type: none"> Completion of all assessment tied to Geometry Goal 1, 2 and 3 (70%)
11:3	<ul style="list-style-type: none"> Completion of all assessments tied to Geometry Goal 1, 2, 3 and 4 (70%) 	<ul style="list-style-type: none"> Completion of all assessments tied to Geometry Goal 1, 2, 3 and 4 (70%)
11:4	<ul style="list-style-type: none"> Earn credit for Geometry (70%) 	<ul style="list-style-type: none"> Earn credit for Geometry (Goals 1-5 at 70%)
12:1	<ul style="list-style-type: none"> Completion of all assessments tied to Business Math with Algebra Goal 1 (70%) Completion of all assessments tied to Math Application Goal 1 (70%) 	<ul style="list-style-type: none"> Completion of all assessment tied to Advanced Algebra Goal 1 (70%)
12:2	<ul style="list-style-type: none"> Completion of all assessments tied to Business Math with Algebra Goal 1, 2 and 3 (70%) Completion of all assessments tied to Math Application Goal 1 and 2 (70%) 	<ul style="list-style-type: none"> Completion of all assessment tied to Advanced Algebra Goal 1 and 2 (70%)
12:3	<ul style="list-style-type: none"> Completion of all assessments tied to Business Math with Algebra Goal 1, 2, 3 and 4 (70%) Completion of all assessments tied to Math Application Goal 1, 2 and 3 (70%) 	<ul style="list-style-type: none"> Completion of all assessments tied to Advanced Algebra Goal 1, 2 and 3 (70%)

Eligibility for CIAC Activities:

Year: Quarter Beginning of the Marking Period	Students must meet the minimum requirement outlined below. Otherwise, they will be considered failing for CIAC purposes. <ul style="list-style-type: none">• <i>Must complete one goal each marking period or</i>• <i>Must be on pace to complete three credits of math by date of graduation</i>
9:1	All students eligible.
9:2	Performance in Math will not be considered for CIAC eligibility.
9:3	<ul style="list-style-type: none">• Complete at least one course goal at (70%)• Completion of all assessments tied to Algebra I Goal 1 (70%)
9:4	<ul style="list-style-type: none">• Complete at least one additional course goal at (70%) or• Completion of all assessments tied to Algebra I Goal 1 and 2 (70%)
10:1	<ul style="list-style-type: none">• Complete at least one additional course goal at (70%) or• Completion of all assessments tied to Algebra I Goal 1, 2, and 3 (70%)
10:2	<ul style="list-style-type: none">• Complete at least one additional course goal at (70%) or• Completion of all assessments tied to Algebra I Goal 1, 2, 3 and 4 (70%)
10:3	<ul style="list-style-type: none">• Complete at least one additional course goal at (70%) or• Completion of all assessments tied to Algebra I Goal 1, 2, 3, 4 and 5 (70%)
10:4	<ul style="list-style-type: none">• Complete at least one additional course goal at (70%) or• Earn credit for Algebra I (70%)

Year: Quarter	Minimum Requirement for Eligibility for Honor Roll and High Honor Roll
End of the Marking Period	<ul style="list-style-type: none"> • <i>Must complete one goal each marking period or</i> • <i>Must be on pace to complete three credits of math by date of graduation</i>
9:1	All students eligible
9:2	All students eligible
9:3	<ul style="list-style-type: none"> • Complete at least one goal at (70%) • Completion of all assessment tied to Algebra I Goal 1 (70%)
9:4	<ul style="list-style-type: none"> • Complete at least one additional course goal at (70%) or • Completion of all assessments tied to Algebra I Goal 1 and 2 (70%)
10:1	<ul style="list-style-type: none"> • Complete at least one additional course goal at (70%) or • Completion of all assessments tied to Algebra I Goal 1, 2, and 3 (70%)
10:2	<ul style="list-style-type: none"> • Complete at least one additional course goal at (70%) or • Completion of all assessments tied to Algebra I Goal 1, 2, 3 and 4 (70%)
10:3	<ul style="list-style-type: none"> • Complete at least one additional course goal at (70%) or • Completion of all assessments tied to Algebra I Goal 1, 2, 3, 4 and 5 (70%)
10:4	<ul style="list-style-type: none"> • Complete at least one additional course goal at (70%) or • Earn credit for Algebra I (70%)

Thank You!