

# All Math Classrooms at \_\_\_\_\_ believe...

1. Math is Fun *AND* Challenging
2. Math is for everyone
3. Math is a grapple-- it is problem-solving
4. Math is critical thinking for the real world
5. Math students grow on a trajectory towards becoming elegant and efficient mathematicians
6. Math conversations include 100% active engagement where every community member pushes themselves and others to take risks, make mistakes, and grow.

## In order to get to this vision...

TEACHERS:	STUDENTS:
<ul style="list-style-type: none"> <li>● BUILD STRONG ROUTINES</li> <li>● BUILD STRONG CLASSROOM CULTURE</li> <li>● CHOOSE CHALLENGING &amp; RESPECTFUL TASKS</li> <li>● PRE-PLAN QUESTIONS AND LEARNING TARGETS</li> <li>● BACKWARDS PLAN FROM STANDARDS AND ENSURE APPROPRIATE RIGOR IN ALL TASKS AND LESSONS USING THE STANDARDIZED TEMPLATE.</li> <li>● MONITOR STUDENT SOLVING</li> <li>● SEQUENCE STUDENT SOLVING</li> <li>● BE FACILITATORS OF STUDENT DISCOURSE</li> <li>● COLLECT AND ANALYZE STUDENT DATA</li> <li>● PROVIDE RETEACH OF PRIORITIZED STANDARDS</li> <li>● PUSH FOR CONCEPTUAL UNDERSTANDING, NOT JUST MEMORIZATION OR PROCEDURAL FLUENCY</li> <li>● ADD OR REMOVE APPROPRIATE SCAFFOLDS BASED ON STUDENT NEED</li> <li>● FOSTER STUDENT INDEPENDENCE</li> </ul>	<ul style="list-style-type: none"> <li>● SOLVE PROBLEMS IN MULTIPLE WAYS</li> <li>● PERSIST THROUGH CHALLENGING TASKS</li> <li>● APPROACH STRUGGLE AS AN OPPORTUNITY TO GROW</li> <li>● BE ACTIVE LISTENERS AND SPEAKERS</li> <li>● BE ABLE TO CRITIQUE THE REASONING OF OTHERS</li> <li>● STRIVE TO BE ELEGANT AND EFFICIENT IN SOLVING</li> <li>● REFLECT ON OWN WORK</li> <li>● SET GOALS</li> <li>● MONITOR PROGRESS TO GOALS</li> <li>● OWN THEIR OWN DATA</li> <li>● SUPPORT CLASSMATES IN MAKING PROGRESS TOWARDS GOALS</li> <li>● ADVOCATE FOR WHAT THEY NEED NEXT</li> <li>● SHARE THEIR STRATEGIES AND NEW LEARNING WITH ONE ANOTHER</li> <li>● SEEK TO UNDERSTAND CONCEPTS DEEPLY OVER FINDING SHORTCUTS</li> </ul>

# LEADERS:

- DEVELOP AND UNPACK A MATH VISION
- IDENTIFY ROLES WITHIN THE VISION
- ANALYZE CURRENT STRUCTURES FOR ALIGNMENT WITH THE MATH VISION AND MAKE NECESSARY ADJUSTMENTS
- ADOPT AND TWEAK A MATH SPECIFIC COMMON LESSON PLANNING TEMPLATE
- ADOPT A COMMON CURRICULAR TOOL TO PULL FROM TO KEEP LANGUAGE, STRUCTURES, AND RIGOR CONSISTENT
- CREATE AND IMPLEMENT A PLAN TO SHARE THE WORK OF THE DEPARTMENT WITH THE BROADER COMMUNITY
- PRIORITIZE AND IMPLEMENT STRUCTURES TO SUPPORT THE DEVELOPMENT OF A MATH CULTURE
- DESIGN EXPERIENCES THROUGH WHICH STUDENTS REGULARLY ENGAGE WITH MATH BEYOND THE MATH CLASSROOM
- PLAN AND IMPLEMENT TRADITIONS AND CELEBRATIONS TIED TO THE MATH CULTURE
- DESIGN AND FACILITATE PROFESSIONAL DEVELOPMENT AND COACHING TO SUPPORT GROWTH IN TEACHER CONCEPTUAL AND PEDAGOGICAL CONTENT KNOWLEDGE