

Action Plan 2 -Mathematics

<p>Target: To improve mathematics skills for all students especially those identified as failing to meet Annual Yearly Progress (AYP).</p>	<p>Result Statement: All students will be proficient problem solvers who could successfully choose from a variety of strategies and who could justify solutions orally and in writing.</p>
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Changes in Student Learning Behavior:	Changing Instruction:	Monitoring Progress with Timelines and Adjustments:	Collaboration and Support:	Resources: School and District:	Evaluation of Success/ Reporting to Families and Community:
<p>What will students do to reach the identified results? How will we know whether students are developing these behaviors?</p> <ul style="list-style-type: none"> ➤ All students will use writing and/or drawing regularly to express ideas and solutions using appropriate mathematical language. ➤ Students will work in cooperative groups to solve problems and communicate their thinking to peers. ➤ Students will demonstrate mathematical thought and application through the use of mathematical tools and manipulatives. ➤ Students will show 	<p>What will teachers do to ensure students change their learning behaviors and attain the results?</p> <ul style="list-style-type: none"> ➤ Teachers will review NECAP testing results and plan appropriate instruction and professional development. ➤ Teachers will display Math word walls and student work. ➤ Teachers will attend in-service opportunities to address the needs of all students, especially the subgroups failing to meet AYP. ➤ Teachers will participate in 	<p>How will we measure progress towards the changes in learning behavior and teaching that we want? How will we keep the principal, parents, and SIT informed and involved?</p> <ul style="list-style-type: none"> ➤ All students will be assessed in specific conceptual areas of mathematics to help drive instruction. ➤ Teachers will examine student results on various math assessments to review weaknesses and strengths and determine needs for future instruction. ➤ SIT and teachers will review strengths and weaknesses of 	<p>How will we use the information we get from monitoring to improve our program? When will we discuss the progress we are making?</p> <ul style="list-style-type: none"> ➤ Staff will participate in meetings to examine NECAP results, to review released tasks, and to plan appropriate instruction and professional development. ➤ SIT Meetings ➤ Faculty Meetings 	<p>How will the district and school leadership ensure that the school reaches the result?</p> <ul style="list-style-type: none"> ➤ Continued review by School Improvement Team of district, school and state assessment information. ➤ District will explore ways on how to improve Math teaching and learning through: <ol style="list-style-type: none"> a. work with EMTs to enrich mathematical knowledge of teachers b. workshops, seminars and meetings ➤ District and school leadership will provide in-service opportunities to address the needs of all students especially those students failing to meet AYP. 	<p>How will you know if the students reach the intended result? How will you inform the school community? Next steps.</p> <ul style="list-style-type: none"> ➤ School will continue to analyze results of NECAP assessments. ➤ SIT Meetings ➤ Parent Report Night ➤ PTO Meetings ➤ Calendar newsletter ➤ Report cards

<p>mathematical ideas in a variety of ways: charts, pictures, tables, diagrams, graphs, and/or models.</p> <ul style="list-style-type: none"> ➤ All students will use math games to reinforce skills/concepts. ➤ Students in grades 2-6 will learn to use calculators in problem solving activities. ➤ Students will demonstrate logical reasoning by: <ul style="list-style-type: none"> a. using a variety of strategies to solve problems, b. explaining and defending solutions to problems. ➤ Students will make connections and generalizations in problem solving by identifying patterns, applying solutions, and making general rules. ➤ Students will engage daily in: <ul style="list-style-type: none"> a. Math Chat, b. Maintaining Concepts and Skills, 	<p>technology training provided by the district in the use of computer programs.</p> <ul style="list-style-type: none"> ➤ Teachers will utilize multiple math games as appropriate in instruction. ➤ Staff will create and share math based activities which support family involvement. ➤ Teachers will expose the students to a variety of manipulatives and tools. ➤ Teachers will instruct Grade 2-6 students in the proper use of calculators. ➤ Teachers will use Math Chat, Maintaining Concepts and Skills, calendar, and/or number sense activities. ➤ Teachers will expose students to equivalency in 	<p>the Baldwin Math After School Program.</p> <ul style="list-style-type: none"> ➤ Report cards ➤ Mid-Trimester Progress Reports ➤ Parent conferences ➤ SIT meetings ➤ Review of SALT Survey Data ➤ Administrators will review lesson plans. ➤ Periodic walkabouts by administrators to monitor instruction 	<ul style="list-style-type: none"> ➤ EMT training 	<ul style="list-style-type: none"> ➤ Administrators will inform new and current staff of location of the professional print and non-print collection housed in the library like videos, periodicals, balanced assessment activities, math related children’s literature, Connect to Standards, and math games. ➤ Administrators will request technology training by the district in the use of computer programs. ➤ Periodic walkabouts by administrators to monitor instruction ➤ Administrators will lead revision and planning of the Baldwin after school math program. ➤ District will provide and train teachers in the use of math rubrics, the problem solving heuristic, Groundworks series, Grade 3-6 standards based lesson plan format, and Grade 3 alignment update. 	<p>and parent-teacher conferences</p> <ul style="list-style-type: none"> ➤ Annual June review of Baldwin School Improvement Plan ➤ Review and revision of Baldwin Math after school program ➤ Mid-Trimester Progress Reports
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<p>c. Calendar, and/or d. Number Sense</p> <p>➤ Students will use computers to reinforce skills/concepts.</p>	<p>multiple ways.</p> <p>➤ Teachers will participate in EMT training.</p> <p>➤ Teachers in Gr. 3-6 will be trained and use the standards based lesson plan format.</p> <p>➤ Teachers will use the district math rubric for assessment.</p> <p>➤ Teachers will use the Math Problem Solving Protocol.</p> <p>➤ Teachers will instruct, model, and integrate:</p> <ol style="list-style-type: none"> a. math language b. strategies c. written explanations d. cooperative learning practices e. use of a variety of ways to express math thinking f. making connections g. use of charts, graphs, tables, and diagrams across the entire 			<p>➤ District will assist and support the school in addressing weaknesses in Data, Statistics and Probability.</p>	
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	<p>curriculum</p> <ul style="list-style-type: none">h. equivalency and algebraic thinkingi. logical reasoning <p>➤ Teachers will revise and continue a remedial after school math program targeting the needs of all students, especially those who have failed to meet AYP.</p>				
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