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| **MATH ACTION PLAN** | | | | | |
| Objective: Objective: By the year 2026, 100% of QSI Chisinau 5YO-Secondary IV students will demonstrate improved academic achievement in Math skills as show by:   * 100% of the 5 YO-Secondary IV students enrolled in a Math course will complete 10 or more math units per year. * 100% of 5YO-Secondary IV students enrolled in a Math course will reach their growth goals in MAP Growth Mathematics each year. * 100% of the 5YO-Secondary IV students enrolled in a Math course will score an 80% or higher on the Saxon Math assessment. | | | | | |
| **Strategy #1:**  **Use schoolwide events to create more interest and real-world applications for mathematics** | | | | | |
| **Action Step** | **Person(s)/Group(s) Responsible** | **Timeline for Completion** | **Resources Needed** | **Indicators of Success** | **Status** |
| 1. Organize an annual school wide Pi Day activity | -Math Committee | Annually starting January 2020 | -Time on March 14th  -Materials for activity  Teacher volunteers | -Photography of event  -Advertisement  -Meeting Notes | x |
| 2. Initiate inter-school program to allow for Middle/Secondary students to teach math skills to elementary students at least twice per year | -Math Teachers | Annually starting March 2021 | -Math curriculum  -Time for elementary & upper grade teachers to collaborate | -Artifacts from lesson |  |
| 3. Create Activity ideas to add to the School to Home Connection E-Book for students to practice at home during school breaks | -Math Committee | January 2022 | -Activities that can easily be done at home  -Access to the Home to School Connection E-Book | -Math pages added to the Home to School Connection E-book |  |
| 4. Review and update Home to School Connection E-book as needed | -Math Committee | Annually starting October 2022 | -Activities easily done at home  -Access to Connection E-book | -Meeting notes |  |
| **Strategy #2:**  **Utilize a wide variety of math resources to accommodate different learning styles** | | | | | |
| **Action Step** | **Person(s)/Group(s) Responsible** | **Timeline for Completion** | **Resources Needed** | **Indicators of Success** | **Status** |
| 1. Provide best practices in math differentiation lesson delivery and authentic assessment PD to math teachers | -Math Teachers  -Director | Annually starting November 2019 | -List of best practices in math differentiation lesson delivery  -PD time | -PD Agenda  -Meeting Notes | x |
| 2. Implement best practices in math lesson delivery and authentic assessment in all math classrooms | -Math Teachers | Annually starting January 2020 | -Resources to teach and assess with best practices | -Lesson plans  -Artifacts from lessons and assessments | x |
| 2. 3. Provide researched based hands-on math lesson delivery and authentic assessment PD to math teachers | -Math Teachers  -Director | Annually starting November 2020 | -List of researched  based hands-on math  activities  -PD time | -PD Agenda  -Meeting Notes |  |
| 4. Implement hands-on math lesson delivery and authentic assessment in all math classrooms | -Math Teachers | Annually starting January 2021 | -Resources for hands on lessons and assessments | -Lesson plans  -Artifacts from lessons and assessments |  |
| 5. Provide math technology resources to use in math lesson delivery and authentic assessment PD to math teachers | -Math Teachers  -Director | Annually starting November 2021 | -Kahn Academy  -Desmos (Secondary)  -Prodigy (Elementary)  -List of other researched based technology resources  -PD time | -PD Agenda  -Meeting Notes |  |
| 6. Implement math technology resources for lesson delivery and authentic assessment in all math classrooms | -Math Teachers | Annually starting January 2022 | -Technology resources for lessons and assessment | -Lesson plans  -Artifacts from lessons and assessments |  |
| 7. Implement student-to-student learning with the use of games which model real world mathematics | -Math Teachers | Annually starting November 2022 | -Computer games  -Board games  -Other games that model real world mathematics | -Lesson plans  -Artifacts from lessons |  |
| **Strategy #3:**  **Create a school wide system of communicating a scaffold math curriculum among teachers, students, and parents** | | | | | |
| **Action Step** | **Person(s)/Group(s) Responsible** | **Timeline for Completion** | **Resources Needed** | **Indicators of Success** | **Status** |
| 1. Communicate all available resources to new/old staff | -Math Teachers  -Director | Annually starting August 2019 | -List of new resources  -School Server  -Staff Meeting and PD time | -Agenda or meeting notes  -Template email  -Excel document of resources |  |
| 2. Create a means to collect and share student math data from year to year | -Math Teachers | October 2019 | -Digital or hard copy organizational system for collecting and sharing student math data yearly | -Creation of organization system  -Meeting notes |  |
| 3. Share student data from year to year | -Math Teachers | Annually starting September 2020 | -Unit Completion  -Saxon Assessment  -MAP Assessment  -Surveys  -Other Math Data | -Meeting Notes |  |
| 4. Implement inter-teacher sharing sessions of creative and successful lesson delivery | -Math Teachers  -Director | Annually starting September 2019 | -Staff Meeting Time | -Meeting Notes  -Shared e-mails |  |
| 5. Develop a practical approach to communicate math curriculum to parents and students in a meaningful way | -Math Teachers | January 2020 | -List of ideas of practical & meaningful communication devices | -Meeting Notes  -Chosen Communication Device |  |
| 6. Implement a practical approach to communicate math curriculum to parents and students in a meaningful way | -Math Teachers | Once per quintile starting February 2020 | -Chosen Communication Device | -Artifacts to parents and students |  |
| 7. Review and/or update the Math Action Plan to ensure cohesiveness, effectiveness, and clarity | -Math Teachers  -Math Committee  -Director  -Action Plan Team | Annually starting May 2020 | -Math Action Plan  -Indicators of Success from current year | -Meeting Notes  -Action Plan updates |  |
| **Strategy #4:**  **Utilize standardized assessments and unit completion data to analyze student**  **learning and growth** | | | | | |
| **Action Step** | **Person(s)/Group(s) Responsible** | **Timeline for Completion** | **Resources Needed** | **Indicators of Success** | **Status** |
| 1. Use MAP Testing as a measure of student growth | -Math Teachers  -IT Department  -Director | Annually starting September 2019 & May 2020 | -Computer Lab  -MAP Software  -MAP Data | -MAP Growth Report from Fall to Spring | N/A COVID-19 |
| 2. Use Saxon Assessments as measure of student achievement | -Math Teachers | Annually starting April 2020 | -Saxon Exams | -Saxon Math scores | N/A COVID-19 |
| 3. Track student unit mastery completion | -Math Teachers | Annually starting August 2019 | -Unit completion Excel sheet | -Unit completion Excel sheet |  |