

Goal 1: All students in Saranac Community Schools will be proficient in science.

Measurable Objective 1:

A 14% increase of Pre-K, Kindergarten, First, Second, Third, Fourth, Fifth, Sixth, Seventh, Eighth, Ninth, Tenth, Eleventh, Twelfth, Postsecondary, Adult and Ungraded grade Black or African-American, Asian, White, Economically Disadvantaged, Gifted and Talented, Hispanic or Latino, Students with Disabilities, English Learners, Two or More Races, American Indian or Alaska Native and Native Hawaiian or Other Pacific Islander students will demonstrate a proficiency of overall performance in Science by 06/01/2016 as measured by the State's assessment.

Strategy 1:

Curriculum Alignment - Saranac will have a written articulated curriculum that aligns with the CCSS for literacy in science.

Category: Career and College Ready

Research Cited: Research supports an alignment between curriculum, instruction, and assessment.

Tier: Tier 1

Activities:

Activity - Battle Creek Science Kits	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Battle Creek Science Kits that are aligned to the State Standards will be used to deliver science curriculum. Schools: All Schools	Materials	Tier 1	Implement	07/01/2014	06/30/2022	\$3000	General Fund	Mike Catrell

Activity - NGSS Alignment	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Teachers of science will learn how to align curriculum to the NGSS. Schools: All Schools	Curriculum Development	Tier 1	Getting Ready	07/01/2015	08/31/2021	\$1000	Title II Part A	Science teachers and curriculum director

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Activity - Modeling Training	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Science teachers will be trained in the process of using modeling instruction to support NGSS. Schools: All Schools	Curriculum Development	Tier 1	Getting Ready	07/01/2018	06/30/2021	\$8000	Title II Part A	Connie Hamilton

Strategy 2:

Additional and Timely Assistance - Teachers will provide small groups of at risk students with support classes to provide additional learning time and practice on specific activities in science.

Category:

Research Cited: http://www.rtinetwork.org/?gclid=CPn_gKP7cCFac7MgodPIMAQw

Tier: Tier 2

Activities:

Activity - Summer School/Credit Recovery	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
A credit recovery summer school option will be available for students who did not receive credit in science. Schools: Saranac Jr/Sr High School	Academic Support Program	Tier 3	Implement	08/01/2014	06/30/2025	\$500	Section 31a	HS Administration

Activity - Title I Teachers	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Highly Qualified teachers will provide timely and additional support to Title I students in science. Schools: Saranac Elementary School	Academic Support Program	Tier 2	Implement	07/01/2015	06/30/2025	\$26170	Title I Part A	Title I Director

Strategy 3:

Thinking Maps - Visualizing our thinking allows us to have a concrete image of our abstract thoughts. Visual representations enhance the brain's natural ability to detect and construct meaningful patterns. Thinking Maps reduce anxiety by providing familiar visual patterns for thinking and working with complex ideas and situation.

Category:

Research Cited: Visualizing our thinking allows us to have a concrete image of our abstract thoughts. Visual representations enhance the brain's natural ability to detect and construct meaningful patterns. Thinking Maps reduce anxiety by providing familiar visual patterns for thinking and working with complex ideas and situation.

http://www.marzanoresearch.com/research/researched_strategies.aspx

Tier: Tier 1

Activities:

Activity - Direct Instruction of Thinking Maps	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
K-6 teachers will teach all 8 maps to elementary students by November 15, 2015. Schools: All Schools	Direct Instruction	Tier 1	Monitor	08/31/2015	06/30/2020	\$0	No Funding Required	All elementary teachers.

Strategy 4:

Best Practices - Teachers will research and use best instructional practices to meet the needs of students.

Category:

Research Cited: http://investigations.terc.edu/library/bookpapers/comp_fluency.cfm

[www.ed-tech-4-science.com/wp-content/.../Deep-Conceptual-learning.pd...Cached](http://www.ed-tech-4-science.com/wp-content/.../Deep-Conceptual-learning.pd...)

Tier: Tier 1

Activities:

Activity - Use of Formative Assessments	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
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Teachers will use formative assessments to write lessons and determine interventions/enrichment for all students. Schools: All Schools	Direct Instruction	Tier 1	Implement	09/02/2014	06/30/2020	\$0	No Funding Required	Classroom teachers and administration
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Activity - QAR	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Teachers will employ the QAR strategy when students engage in reading assignments. Teachers will challenge students to use this strategy to prepare them for the Next Generation Science Standards. Schools: Saranac Jr/Sr High School	Direct Instruction	Tier 1	Implement	09/02/2013	06/30/2020	\$0	No Funding Required	Teachers of Science

Activity - NGSX Exemplar Learning Systems	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Teachers will attend a workshop series on NGSX to engage and deeply examine the scientific practices of modeling, explanation, and argumentation. Schools: All Schools	Professional Learning	Tier 1	Getting Ready	07/01/2018	06/30/2022	\$2450	Title II Part A	Principals

Strategy 5:

Classroom Questioning - All staff will use classroom questioning techniques to increase student engagement and deeper thinking.

Category:

Research Cited: Research shows that instruction involving questioning is more effective than instruction without questioning. Questioning is one of the nine research-based strategies presented in Classroom Instruction That Works (Marzano, Pickering, and Pollock 2001). One important finding is that questions that focus student attention on important elements of a lesson result in better comprehension than those that focus on unusual or interesting elements. Questions should also be structured so that most elicit correct responses.

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Activities:

Activity - Classroom Questioning Differentiation	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Teachers will differentiate questioning (based on student answers) and scaffold students to access higher level thinking. Schools: All Schools	Direct Instruction	Tier 1	Implement	09/02/2013	06/30/2020	\$0	No Funding Required	Science Teachers

Activity - SAT Prep	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Teachers will develop ACT/SAT style questions and practices to assist students in preparing for science portion. The questions and practice will be based on weaknesses identified through data analysis. Schools: Saranac Jr/Sr High School	Academic Support Program	Tier 1	Implement	07/01/2016	06/30/2020	\$220	Title II Part A	Science Teachers

Strategy 6:

Five Dimensions of Teaching and Learning - Teachers will be trained and held accountable for Tier 1 interventions in the dimensions of Classroom Environment and Culture and Student Engagement

Category:

Research Cited: Research Cited: Danielson, C., & McGreal, T. L. (2000). Teacher evaluation to enhance professional practice. Alexandria, VA: ASCD.

Tier: Tier 1

Activities:

Activity - Administrator Feedback	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
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The administrators will conduct observations 4-6 times a year for each teacher and provide targeted and timely feedback on their instructional practices. Schools: All Schools	Professional Learning, Walkthrough	Tier 1	Getting Ready	07/01/2016	06/30/2025	\$0	No Funding Required	Building admin
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Activity - 5D+ Training	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
K-12 teachers and administration will participate in a 3 year process of rolling out the Five+ Dimensions of Teaching and Learning Schools: All Schools	Professional Learning	Tier 1	Getting Ready	08/31/2015	06/30/2025	\$0	No Funding Required	Funding accounted for in math goal.

Activity - 5D+ Follow Up	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
6-12 department groups will meet to review and monitor the implementation of the 5D+ learning for their specific content areas. A PD format will be used for teachers to learn, apply, and monitor together. Consultation with trained administrators and 5D+ consultants will be used. Schools: Saranac Jr/Sr High School	Professional Learning	Tier 1	Monitor	09/08/2015	06/30/2021	\$440	Title II Part A	Teachers of science and curriculum director

Measurable Objective 2:

A 10% increase of English Learners students will demonstrate a proficiency In overall performance in Social Studies by 06/14/2016 as measured by WIDA.

Strategy 1:

Timely and additional assistance for ELs - A tiered system of interventions will provide timely and additional support for English learners.

Category:

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Research Cited: Belding Public Schools

Tier: Tier 2

Activities:

Activity - Differentiated Instruction	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Classroom teachers will provide differentiated instruction to meet the needs of ELs. Schools: All Schools	Direct Instruction	Tier 2	Implement	07/01/2014	06/30/2020	\$0	No Funding Required	Classroom teachers

Activity - EL Consortium Director Consultant	Activity Type	Tier	Phase	Begin Date	End Date	Resource Assigned	Source Of Funding	Staff Responsible
Direct services to students will be provided by an EL consortium director. Schools: All Schools	Teacher Collaboration	Tier 2	Monitor	07/01/2014	06/30/2021	\$0	General Fund	Funding of \$4000 is indicated in the math goal.