Theory of Action: Student achievement will improve when teachers know the content that is needed to teach their curriculum, create learning progressions based on that content knowledge and implement those learning progressions by applying formative assessments in their classrooms.

	Strategies		Objectives	Goals
	Participants	Activities		
Partners	Design Team of two teachers	Design Team meets in the summer of 2011 to design the professional development process	Evidence of a 5% increase in student	Improve student
1. NWESD	with leadership experience and	Teacher Teams will use in the fall. (2 half days)	scores as measured by student results	achievement.
2. 3 high needs school districts	content expertise from partner		on pre and post HORIZON Research	
Ferndale SD	districts: Caitlyn Gregory,	Teacher Teams meet to learn about formative assessments and draft a learning progression	science content assessments in	Increase teacher
LaConner SD	Snohomish School District, and	with associated formative assessments for specific 4 th , 5 th , and 6 th grade sets of science	participating teacher classrooms by	pedagogical content
Mt Vernon SD	Dale Fournier, Mount Vernon	materials.(2 days)	project end.	knowledge in science as
3. 2 other partner school districts	School District; Brad Smith,			aligned with WA State
Lakewood SD	higher education faculty from	Higher Ed faculty from Skagit Valley College uses the results of the pre-assessment and	Students recognize improvement in	Science Standards.
Snohomish SD	Skagit Valley College; Adrienne	DRAFT learning progression documents to design material-specific professional	their own learning with increasingly	
4. 1 private school	Somera, Regional Science	development to deepen pedagogical content knowledge for Teacher Teams.	better performance on formative	Design, develop and
Immaculate Conception Regional School	Coordinator, NWESD; Joanne		assessments imbedded in the teacher	implement a professional
5.Skagit Valley College	Johnson, NW LASER Alliance	Teacher Teams work with higher ed faculty to deepen their pedagogical content knowledge	created learning progressions by	development process which
6.Applied Research Northwest	Director, NWESD and Pamela	and use Curriculum Topic Study to finalize their learning progression documents.(2 days)	project end.	can be used to create
TI T	Jull, Applied Research NW,		T S	learning progressions and
Background (NWESD)	project evaluator,	Teacher Teams use science kits winter quarter in their classrooms, testing the formative	Increased student intellectual	imbedded formative
Previous exp. as MSP grantee	Kathy Darrow-Joiner, Teacher on	assessments and fine tuning the learning progressions, reflecting in an online community	engagement with the science content	assessments for commonly
Exp. with NCOSP	Special Assignment: Science,	and sharing their learning with other teams. (1 hour per week online site-related facilitated	in classrooms	used science materials in
Exp. with LASER	NWESD.	learning in Moodle.)		WA state.
Experience Regional Coordinator			Evidence of increased teacher	
	Twenty-two elementary teachers	Teachers Teams apply learning from the first science kit on a second kit, creating learning	content knowledge as aligned with	
	from our partner districts working	progressions and formative assessments and deepening their content knowledge. (2 days	WA State Science Standards and	Create material specific
Alignment with state and national standards.	in Teacher Teams to build	workshop plus implementation spring quarter plus one hour per week online site-related	commonly used materials in WA	summative assessments for
Program aligned with state and national	learning progressions for ten 4 th ,	learning in Moodle.)	State and measured by HORIZON	4 th , 5 th , and 6 th grade sets of
standards.	5 th , and 6 th grade science kits.		Research Content specific teacher pre	science materials used in
		During the Summer of 2012, Teacher Teams ready the team developed learning	and post assessments.	our partner districts.
		progressions and imbedded formative assessments for ten science kits for publication.(2	P C C C C C C C C C C C C C C C C C C C	The Parameter accounts
Needs assessment		days)	Learning progressions and imbedded	
			formative assessments for ten	
Student Data:		Culmination of project, summer of 2012, the Design Team finalizes the products of the	commonly used sets of science	
WASL and MSP data from 2008 – 2010 for		project:	materials in 4 th , 5 th , and 6 th grade	
partner district schools shows students		Professional Development templates and manuals	classrooms in NW ALPS partner	
consistently meeting standard at a lower rate than		Teacher Guides	districts by project end.	
the state average.		 Learning progressions and imbedded formative assessments for ten science kits: 	production by project care.	
		STC Ecosystems	Increased availability of online	
Teacher Data:		FOSS Environments	educational resources that can be	
Needs assessment survey data shows partner		FOSS Landforms	used to replicate the professional	
district teachers do not feel adequately prepared		FOSS Leading FOSS Levers & Pulleys	development done to create learning	
to teach a number of topics in elementary science		FOSS Magnetism & Electricity	progressions and formative	
curriculum and in the areas of formative and		FOSS Mixtures & Solutions	assessments for other science	
summative assessment and learning progressions.		FOSS Models & Design	materials by project end.	
F-10-40020405		STC Motion & Design		
		FOSS Variables		
		FOSS Water		
		1 ODD TIME!		1

Math Science Partnership

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