	Partner groups			
	Participating Teacher Teams: consist of 8-10	Lead Teacher Team: Consists of 2-3 participating	Higher Ed Partners: Faculty lead and 2-3	Northwest ESD: Project director, 2 core
Timeline	groups of 3-5 teachers that use the same instructional materials	teachers and a district administrator	additional faculty members with life, earth, and physical science expertise	professional development experts and additional PD providers for specialized support
	Professional Deve	lopment Activities	Professional Dev	velopment Support
Summer		Anticipated Planning and PD Design Activities		Anticipated Planning and PD Design Activities
		Pilot and refine learning progression creation process. Inform design formative assessment professional development.		Identify instructional materials to be taught in winter and spring.
				Design learning progression creation process and formative assessment professional development.
				Visit with building administrator to discuss how teacher learning and activities can be supported.
Early Fall	PD Experience #1 (12 hrs-two days): Whole Group Workshop	PD Experience #1 (12 hrs-two days): Whole Group Workshop	Anticipated Planning and PD Design Activities	PD Experience #1 (12 hrs-two days): Whole Group Workshop
	Anticipated PD Activity Types: Content pre-assessment, formative assessment introduction, introduction to learning progressions, draft Initial learning progression for winter and spring instructional materials.  Targeted Concepts: Formative Assessment, Learning Progressions in Science.	Anticipated PD Activity Types: Content pre-assessment, formative assessment introduction, introduction to learning progressions, draft initial learning progression for winter and spring instructional materials.  Targeted Concepts: Formative Assessment, Learning Progressions in Science.	Deepen personal understanding of formative assessment and learning progressions.  Initial design of content immersions based on identified winter kits.	Anticipated PD Supports: Facilitate formative assessment introduction, introduction to learning progressions, and draft initial learning progression for winter instructional materials.
Mid Fall			Anticipated Planning and PD Design Activities	Anticipated Planning and PD Design Activities
			Evaluate teacher pre-assessment and learning progression drafts to finalize design of the content immersion PD to address identified teacher content weaknesses.	Evaluate teacher pre-assessment and learning progression drafts to finalize design of the content immersion PD to address identified teacher content weaknesses.
Late Fall	PD Experience #2 (12 hrs-two days): Materials specific content workshop immersion and product development	PD Experience #2 (12 hrs-two days): Materials specific content workshop immersion and product development	PD Experience #2 (12 hrs-two days): Materials specific content workshop immersion and product development	PD Experience #2 (12 hrs-two days): Materials specific content workshop immersion and product development
	Anticipated PD Activity Types: Science content immersion, Curriculum Topic Study, learning progression finalization, and modeling of formative assessment techniques.  Targeted Concepts: Formative Assessment, Learning Progressions in Science, Big Ideas from WA Science Learning Standards 4-5 grade band.	Anticipated PD Activity Types: Science content immersion, Curriculum Topic Study, learning progression finalization, and modeling of formative assessment techniques.  Targeted Concepts: Formative Assessment, Learning Progressions in Science, Big Ideas from WA Science Learning Standards 4-5 grade band.	Anticipated PD Supports:  Deliver science content immersion, support  Curriculum Topic Study, inform learning progression finalization, and model formative assessment techniques.	Anticipated PD Supports: Support science content immersion, introduce and facilitate Curriculum Topic Study, support learning progression finalization, and model formative assessment techniques.
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Early Winter	Site Related PD Part 1 (5 hrs-one day):	Site Related PD Part 1 (6 hrs-one day):	Site Related PD Part 1 (2 hrs-one day):	Site Related PD Part 1 (10 hrs-two days):
	Implementation and Reflection	Implementation and Reflection	Implementation and Reflection	Implementation and Reflection
	Anticipated Activity Types:	Anticipated Activity Types:	Anticipated PD Supports Support content needs that arise during teacher	Anticipated PD Supports
	Implement formative assessments included in	Implement formative assessments included in teacher created learning progressions. Reflect and	implementation of learning progressions through	Support needs that arise during teacher
	teacher created learning progressions. Reflect and record results on a weekly basis and participate in	record results on a weekly basis and participate in	on line asynchronous discussions with participating	implementation of learning progressions through on line asynchronous discussions with participating
	supportive asynchronous on-line discussions with	supportive asynchronous on-line discussions with	teachers.	teachers or site visits as needed.
	other participating teachers, higher ed faculty, and	other participating teachers, higher ed faculty, and	teachers.	teachers of site visits as needed.
	PD providers about their implementation.	PD providers about their implementation.		Visit and observe a subset of implementing
	PD providers about their implementation.	PD providers about their implementation.		teacher classrooms to observe/ inform design of
	Targeted Concepts: Formative Assessment,	Targeted Concepts: Formative Assessment,		the mid-trimester check in.
	Learning Progressions in Science, Big Ideas from	Learning Progressions in Science, Big Ideas from		the mid-timester check in.
	WA Science Learning Standards 4-5 grade band.	WA Science Learning Standards 4-5 grade band.		Visit with building administrator to discuss how
	WA Science Learning Standards 4-5 grade band.	WA Science Learning Standards 4-5 grade band.		teacher learning and activities can be supported.
		Anticipated Planning and PD Design Activities		teacher learning and activities can be supported.
		Anticipated Flamming and FD Design Activities	Anticipated Planning and PD Design Activities	Anticipated Planning and PD Design Activities
		Review teacher reflections. Meet with the faculty	Anticipated Flaming and F D Esign Activities	Anticipated Fidining and FD Design Activities
		lead and NWESD to discuss implementation issues	Faculty lead: Review teacher reflections, meet with	Review teacher reflections, meet with lead
		and inform PD experience #3 design and building	lead teachers and NWESD to discuss	teachers and faculty lead to discuss
		administrator meetings.	implementation issues and inform PD experience	implementation issues and inform PD experience
		a manager	#3 design.	#3 design.
				ine design.
				Design PD experience #3.
Mid Winter	PD Experience # 3 (6 hrs-one day): Whole group	PD Experience # 3 (6 hrs-one day): Whole group	PD Experience # 3 (6 hrs-one day): Whole group	PD Experience #3 (6 hrs-one day): Whole group
	PD and instructional materials based product	PD and instructional materials based product	PD and instructional materials based product	and instructional materials based content
	development	development	development	immersion and product development
	Anticipated PD Activity Types:	Anticipated PD Activity Types:	Anticipated PD Supports	Anticipated PD Supports
	Professional development on effective feedback.	Professional development on effective feedback.	Faculty lead supports content needs that arise	Deliver PD on formative assessment and effective
	Reflection on current implementation of learning	Reflection on current implementation of learning	during reflection on current implementation of	feedback, facilitate debrief and troubleshooting,
	progressions and formative assessment tasks, and	progressions and formative assessment tasks and	learning progressions and formative assessment	and modification of learning progressions.
	modification of learning progressions if needed.	modification of learning progressions if needed.	tasks, and modification of learning progressions.	
	Targeted Concept: Formative Assessment	Targeted Concept: Formative Assessment		

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Late Winter	Site Related PD Part 2 (5 hrs-one day): Implementation and Reflection	Site Related PD Part 2 (6 hrs-one day): Implementation and Reflection	Site Related PD Part 2 (2 hrs-one day): Implementation and Reflection	Site Related PD Part 2 (3 hrs-one day): Implementation and Reflection
	Anticipated Activity Types:	Anticipated Activity Types:	Anticipated PD Supports	Anticipated PD Supports
	Implement formative assessments included in	Implement formative assessments included in	Support content needs that arise during teacher	Support needs that arise during teacher
	teacher created learning progressions. Reflect and	teacher created learning progressions. Reflect and	implementation of learning progressions through	implementation of learning progressions through
	record results on a weekly basis and participate in	record results on a weekly basis and participate in	on line asynchronous discussions with participating	on line asynchronous discussions with participating
	supportive asynchronous on-line discussions with	supportive asynchronous on-line discussions with	teachers.	teachers or site visits as needed.
	other participating teachers, higher ed faculty, and	other participating teachers, higher ed faculty, and		
	PD providers about their implementation.	PD providers about their implementation.		Visit a subset of implementing teacher classrooms
				to observe/ inform design of the mid trimester
	Targeted Concepts: Formative Assessment,	Targeted Concepts: Formative Assessment,		check in.
	Learning Progressions in Science, Big Ideas from	Learning Progressions in Science, Big Ideas from		
	WA Science Learning Standards 4-5 grade band.	WA Science Learning Standards 4-5 grade band.		Visit with building administrator to discuss how
				teacher learning and activities can be supported.
		Anticipated Planning and PD Design Activities		
			Anticipated Planning and PD Design Activities	Anticipated Planning and PD Design Activities
		Review teacher reflections, meet with the faculty		
		lead and NWESD to discuss implementation issues	Review teacher reflections, meet with lead	Review teacher reflections, meet with lead
		and inform PD experience #4 design and building	teachers and NWESD to discuss implementation	teachers and faulty lead to discuss implementation
		administrator meetings.	issues and inform PD experience #4 design.	issues and inform PD experience #4 design.
				Design DD averagions #4
Late Winter/Early	PD Experience #4 (12 hrs-two days): Whole group	PD Experience #4 (12 hrs-two days): Whole group	PD Experience #4 (12 hrs-two days): Whole group	Design PD experience #4  PD Experience #4 (12 hrs-two days): Whole group
Spring	and instructional materials based content			
Spring	immersion and product development			
	Anticipated Activity Types:	Anticipated Activity Types:	Anticipated PD Supports:	Anticipated PD Supports:
	Learning progression finalization, science content	Learning progression finalization, science content	Deliver science content immersion, support	Deliver PD on peer and self assessment, support
	immersion around second set of instructional	immersion around second set of instructional	Curriculum Topic Study, learning progression	science content immersion, facilitate <i>Curriculum</i>
	materials, <i>Curriculum Topic Study</i> , and learning	materials, Curriculum Topic Study, and learning	finalization, and model formative assessment	Topic Study, support learning progression
	progression creation for spring materials.	progression creation for spring materials.	techniques.	finalization, and model formative assessment
	progression or eathern for opining materials.	progression or outlier to opining materials.		techniques.
	Targeted Concepts: Formative Assessment,	Targeted Concepts: Formative Assessment,		
	Learning Progressions in Science, Big Ideas from	Learning Progressions in Science, Big Ideas from		
	WA Science Learning Standards 4-5 grade band	WA Science Learning Standards 4-5 grade band		
	Product Development: Learning Progression for	Product Development: Learning Progression for		
	winter set of instructional materials	winter set of instructional materials		

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Early Spring	Site Related PD Part 3 (5 hrs-one day):	Site Related PD Part 3 (6 hrs-one day):	Site Related PD Part 3 (2 hrs-one day):	Site Related PD Part 3 (3 hrs-one day):
	Implementation and Reflection	Implementation and Reflection	Implementation and Reflection	Implementation and Reflection
	Anticipated Activity Types:	Anticipated Activity Types:	Anticipated PD Supports	Anticipated PD Supports
	Implement formative assessments included in	Implement formative assessments included in	Support content needs that arise during teacher	Support needs that arise during teacher
	teacher created learning progressions. Reflect and	teacher created learning progressions. Reflect and	implementation of learning progressions through	implementation of learning progressions through
	record results on a weekly basis and participate in	record results on a weekly basis and participate in	on line asynchronous discussions with participating	on line asynchronous discussions with participating
	supportive asynchronous on-line discussions with	supportive asynchronous on-line discussions with	teachers.	teachers or site visits as needed.
	other participating teachers, higher ed faculty, and	other participating teachers, higher ed faculty, and		
	PD providers about their implementation.	PD providers about their implementation.		Visit a subset of implementing teacher classrooms
				to observe/inform design of the mid trimester
	Targeted Concepts: Formative Assessment,	Targeted Concepts: Formative Assessment,		check in.
	Learning Progressions in Science, Big Ideas from	Learning Progressions in Science, Big Ideas from		
	WA Science Learning Standards 4-5 grade band.	WA Science Learning Standards 4-5 grade band.		Visit with building administrator to discuss teacher
				work and how their learning and activities can be
				supported by the administrator.
		Anticipated Planning and PD Design Activities		,
		<b>6</b>	Anticipated Planning and PD Design Activities	Anticipated Planning and PD Design Activities
		Review teacher reflections, meet with the faculty	,	
		lead and NWESD to discuss implementation issues	Review teacher reflections, meet with lead	Review teacher reflections, meet with lead
		and inform PD experience #5 design.	teachers and NWESD to discuss implementation	teachers and faulty lead to discuss implementation
		, , , , , , , , , , , , , , , , , , ,	issues and inform PD experience #5 design.	issues and inform PD experience 3 design.
			Source and minority 2 experience no design.	osace and mermin 2 experience a decigni
				Design PD experience #5
Mid Spring	PD Experience # 5 (6 hrs-one day): Whole group	PD Experience # 5 (6 hrs-one day): Whole group	PD Experience #5 (6 hrs-one day): Whole group	PD Experience #5 (6 hrs-one day): Whole group
	PD and instructional materials based product			
	development	development	development	development
	Anticipated PD Activity Types:	Anticipated PD Activity Types:	Anticipated PD Supports	Anticipated PD Supports
	PD on eliciting evidence of student understanding	PD on eliciting evidence of student understanding	Faculty Lead supports content needs that arise	Deliver PD eliciting evidence of student
	with ELL students. Reflection on current	with ELL students. Reflection on current	during reflection on current implementation of	understanding with ELL students, facilitate debrief
	implementation of learning progressions and	implementation of learning progressions and	learning progressions and formative assessment	and troubleshooting, modification of learning
	formative assessment tasks, modification of	formative assessment tasks, modification of	tasks, modification of learning progressions.	progressions.
	learning progressions if needed.	learning progressions if needed.		
Lata Carina	Targeted Concept: Formative Assessment	Targeted Concept: Formative Assessment	Cita Dalatad DD Davit 4 (2 hus area days).	Cita Dalatad DD Davit 4 /2 hus area davi).
Late Spring	Site Related PD Part 4 (5 hrs-one day): Implementation and reflection	Site Related PD Part 4 (6 hrs-one day): Implementation and reflection	Site Related PD Part 4 (2 hrs-one day): Implementation and reflection	Site Related PD Part 4 (3 hrs-one day): Implementation and reflection
		•	•	•
	Anticipated Activity Types:	Anticipated Activity Types:	Anticipated PD Supports	Anticipated PD Supports
	Implement formative assessments included in	Implement formative assessments included in	Support content needs that arise during teacher	Support needs that arise during teacher
	teacher created learning progressions. Reflect and	teacher created learning progressions. Reflect and	implementation of learning progressions through	implementation of learning progressions through
	record results on a weekly basis and participate in	record results on a weekly basis and participate in	on line asynchronous discussions with participating	on line asynchronous discussions with participating
	supportive asynchronous on-line discussions with	supportive asynchronous on-line discussions with	teachers.	teachers or site visits as needed.
	other participating teachers, higher ed faculty, and	other participating teachers, higher ed faculty, and		Visit a subset of involver attitude to the subset of
	PD providers about their implementation.	PD providers about their implementation.		Visit a subset of implementing teacher classrooms
				to observe/ inform design of the mid trimester
	Targeted Concepts: Formative Assessment,	Targeted Concepts: Formative Assessment,		check in.
	Learning Progressions in Science, Big Ideas from	Learning Progressions in Science, Big Ideas from		
	WA Science Learning Standards 4-5 grade band.	WA Science Learning Standards 4-5 grade band.		Visit with building administrator to discuss how
				teacher learning and activities can be supported.
Assessing with	Learning Progressions in Science			Funding information:

Assessing with Learning Progressions in Science

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## Funding information:

Late Spring		Anticipated Planning and PD Design Activities	Anticipated Planning and PD Design Activities	Anticipated Planning and PD Design Activities
		Review teacher reflections, meet with the faculty lead and NWESD to discuss implementation issues and inform PD experience #6 design.	Review teacher reflections, meet with lead teachers and NWESD to discuss implementation issues and inform PD experience #6 design.	Review teacher reflections, meet with lead teachers and faculty lead to discuss implementation issues design PD experience #6.
Summer	PD Experience # 6 (12hrs-two days): Whole group PD and instructional materials based product development Anticipated Activity Types: Finalize spring instructional materials learning progressions. Reflect on the Process of Learning Progression Creation, give feedback to the design team as to final development model, professional development on assessment system and summative assessments. Develop summative material-specific assessment that assesses a selection of the targets from the learning progressions and could be used commonly by teachers in professional learning communities or as district assessments. Content post assessment.  Targeted Concepts: Formative Assessment, Learning Progressions in Science.	PD Experience #6 (12hrs-two days): Whole group PD and instructional materials based product development Anticipated Activity Types: Reflect on the Process of Learning Progression Creation, give feedback to the design team as to final development model .  Professional development on assessment system and summative assessments. Develop summative kit based assessment that assesses a selection of the targets from the learning progressions and could be used commonly by teachers in professional learning communities or as district assessments.  Targeted Concepts: Formative Assessment, Learning Progressions in Science.		PD Experience #6 (12hrs-two days): Whole group PD and instructional materials based product development  Anticipated PD Supports  Provide professional development on assessment system and summative assessments. Facilitate the development of summative material-specific assessment that assesses a selection of the targets from the learning progressions which could be used commonly by teachers in professional learning communities or as district assessments.
	Product Developments Learning progression for spring set of instructional materials, summative material-specific assessment.	Product Developments Learning progression for spring set of instructional materials, summative material-specific assessment, process guide for learning progression development model.	Product Developments  Finalized facilitation guide for kit specific content trainings including workshop facilitation guidelines, documents, on-line supports, participant manuals and other products.	Product Developments  Process guide for learning progression development model, workshop facilitation guidelines, documents, on-line supports, formative assessment training manuals and other products.

Key		
	Site Based Professional	
	Development and Support	
	Planning and Professional	
	development Design	
	Common Professional	
	Development	
	Product Development	
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