

Timeline	Partner groups			
	Participating Teacher Teams: consist of 8-10 groups of 3-5 teachers that use the same instructional materials	Lead Teacher Team: Consists of 2-3 participating teachers and a district administrator	Higher Ed Partners: Faculty lead and 2-3 additional faculty members with life, earth, and physical science expertise	Northwest ESD: Project director, 2 core professional development experts and additional PD providers for specialized support
	Professional Development Activities		Professional Development Support	
Summer		Anticipated Planning and PD Design Activities Pilot and refine learning progression creation process. Inform design formative assessment professional development.		Anticipated Planning and PD Design Activities 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 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.	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 Planning and PD Design Activities Deepen personal understanding of formative assessment and learning progressions. Initial design of content immersions based on identified winter kits.	PD Experience #1 (12 hrs-two days): Whole Group Workshop 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 Evaluate teacher pre-assessment and learning progression drafts to finalize design of the content immersion PD to address identified teacher content weaknesses.	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.
Late Fall	PD Experience #2 (12 hrs-two days): Materials specific content workshop immersion and product development Anticipated PD Activity Types: Science content immersion, <i>Curriculum Topic Study</i> , 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.	PD Experience #2 (12 hrs-two days): Materials specific content workshop immersion and product development Anticipated PD Activity Types: Science content immersion, <i>Curriculum Topic Study</i> , 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.	PD Experience #2 (12 hrs-two days): Materials specific content workshop immersion and product development Anticipated PD Supports: Deliver science content immersion, support <i>Curriculum Topic Study</i> , inform learning progression finalization, and model formative assessment techniques.	PD Experience #2 (12 hrs-two days): Materials specific content workshop immersion and product development Anticipated PD Supports: Support science content immersion, introduce and facilitate <i>Curriculum Topic Study</i> , support learning progression finalization, and model formative assessment techniques.

Early Winter	<p>Site Related PD Part 1 (5 hrs-one day): Implementation and Reflection</p> <p>Anticipated Activity Types: Implement formative assessments included in teacher created learning progressions. Reflect and record results on a weekly basis and participate in supportive asynchronous on-line discussions with other participating teachers, higher ed faculty, and PD providers about their implementation.</p> <p>Targeted Concepts: Formative Assessment, Learning Progressions in Science, Big Ideas from WA Science Learning Standards 4-5 grade band.</p>	<p>Site Related PD Part 1 (6 hrs-one day): Implementation and Reflection</p> <p>Anticipated Activity Types: Implement formative assessments included in teacher created learning progressions. Reflect and record results on a weekly basis and participate in supportive asynchronous on-line discussions with other participating teachers, higher ed faculty, and PD providers about their implementation.</p> <p>Targeted Concepts: Formative Assessment, Learning Progressions in Science, Big Ideas from WA Science Learning Standards 4-5 grade band.</p> <p>Anticipated Planning and PD Design Activities</p> <p>Review teacher reflections. Meet with the faculty lead and NWESD to discuss implementation issues and inform PD experience #3 design and building administrator meetings.</p>	<p>Site Related PD Part 1 (2 hrs-one day): Implementation and Reflection</p> <p>Anticipated PD Supports Support content needs that arise during teacher implementation of learning progressions through on line asynchronous discussions with participating teachers.</p> <p>Anticipated Planning and PD Design Activities</p> <p>Faculty lead: Review teacher reflections, meet with lead teachers and NWESD to discuss implementation issues and inform PD experience #3 design.</p>	<p>Site Related PD Part 1 (10 hrs-two days): Implementation and Reflection</p> <p>Anticipated PD Supports Support needs that arise during teacher implementation of learning progressions through on line asynchronous discussions with participating teachers or site visits as needed.</p> <p>Visit and observe a subset of implementing teacher classrooms to observe/ inform design of the mid-trimester check in.</p> <p>Visit with building administrator to discuss how teacher learning and activities can be supported.</p> <p>Anticipated Planning and PD Design Activities</p> <p>Review teacher reflections, meet with lead teachers and faculty lead to discuss implementation issues and inform PD experience #3 design.</p> <p>Design PD experience #3.</p>
Mid Winter	<p>PD Experience # 3 (6 hrs-one day): Whole group PD and instructional materials based product development</p> <p>Anticipated PD Activity Types: Professional development on effective feedback. Reflection on current implementation of learning progressions and formative assessment tasks, and modification of learning progressions if needed.</p> <p>Targeted Concept: Formative Assessment</p>	<p>PD Experience # 3 (6 hrs-one day): Whole group PD and instructional materials based product development</p> <p>Anticipated PD Activity Types: Professional development on effective feedback. Reflection on current implementation of learning progressions and formative assessment tasks and modification of learning progressions if needed.</p> <p>Targeted Concept: Formative Assessment</p>	<p>PD Experience # 3 (6 hrs-one day): Whole group PD and instructional materials based product development</p> <p>Anticipated PD Supports Faculty lead supports content needs that arise during reflection on current implementation of learning progressions and formative assessment tasks, and modification of learning progressions.</p>	<p>PD Experience #3 (6 hrs-one day): Whole group and instructional materials based content immersion and product development</p> <p>Anticipated PD Supports Deliver PD on formative assessment and effective feedback, facilitate debrief and troubleshooting, and modification of learning progressions.</p>

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

Early Spring	<p>Site Related PD Part 3 (5 hrs-one day): Implementation and Reflection</p> <p>Anticipated Activity Types: Implement formative assessments included in teacher created learning progressions. Reflect and record results on a weekly basis and participate in supportive asynchronous on-line discussions with other participating teachers, higher ed faculty, and PD providers about their implementation.</p> <p>Targeted Concepts: Formative Assessment, Learning Progressions in Science, Big Ideas from WA Science Learning Standards 4-5 grade band.</p>	<p>Site Related PD Part 3 (6 hrs-one day): Implementation and Reflection</p> <p>Anticipated Activity Types: Implement formative assessments included in teacher created learning progressions. Reflect and record results on a weekly basis and participate in supportive asynchronous on-line discussions with other participating teachers, higher ed faculty, and PD providers about their implementation.</p> <p>Targeted Concepts: Formative Assessment, Learning Progressions in Science, Big Ideas from WA Science Learning Standards 4-5 grade band.</p> <p>Anticipated Planning and PD Design Activities</p> <p>Review teacher reflections, meet with the faculty lead and NWESD to discuss implementation issues and inform PD experience #5 design.</p>	<p>Site Related PD Part 3 (2 hrs-one day): Implementation and Reflection</p> <p>Anticipated PD Supports Support content needs that arise during teacher implementation of learning progressions through on line asynchronous discussions with participating teachers.</p> <p>Anticipated Planning and PD Design Activities</p> <p>Review teacher reflections, meet with lead teachers and NWESD to discuss implementation issues and inform PD experience #5 design.</p>	<p>Site Related PD Part 3 (3 hrs-one day): Implementation and Reflection</p> <p>Anticipated PD Supports Support needs that arise during teacher implementation of learning progressions through on line asynchronous discussions with participating teachers or site visits as needed.</p> <p>Visit a subset of implementing teacher classrooms to observe/inform design of the mid trimester check in.</p> <p>Visit with building administrator to discuss teacher work and how their learning and activities can be supported by the administrator.</p> <p>Anticipated Planning and PD Design Activities</p> <p>Review teacher reflections, meet with lead teachers and faulty lead to discuss implementation issues and inform PD experience 3 design.</p> <p>Design PD experience #5</p>
Mid Spring	<p>PD Experience # 5 (6 hrs-one day): Whole group PD and instructional materials based product development</p> <p>Anticipated PD Activity Types: PD on eliciting evidence of student understanding with ELL students. Reflection on current implementation of learning progressions and formative assessment tasks, modification of learning progressions if needed.</p> <p>Targeted Concept: Formative Assessment</p>	<p>PD Experience # 5 (6 hrs-one day): Whole group PD and instructional materials based product development</p> <p>Anticipated PD Activity Types: PD on eliciting evidence of student understanding with ELL students. Reflection on current implementation of learning progressions and formative assessment tasks, modification of learning progressions if needed.</p> <p>Targeted Concept: Formative Assessment</p>	<p>PD Experience #5 (6 hrs-one day): Whole group PD and instructional materials based product development</p> <p>Anticipated PD Supports Faculty Lead supports content needs that arise during reflection on current implementation of learning progressions and formative assessment tasks, modification of learning progressions.</p>	<p>PD Experience #5 (6 hrs-one day): Whole group PD and instructional materials based product development</p> <p>Anticipated PD Supports Deliver PD eliciting evidence of student understanding with ELL students, facilitate debrief and troubleshooting, modification of learning progressions.</p>
Late Spring	<p>Site Related PD Part 4 (5 hrs-one day): Implementation and reflection</p> <p>Anticipated Activity Types: Implement formative assessments included in teacher created learning progressions. Reflect and record results on a weekly basis and participate in supportive asynchronous on-line discussions with other participating teachers, higher ed faculty, and PD providers about their implementation.</p> <p>Targeted Concepts: Formative Assessment, Learning Progressions in Science, Big Ideas from WA Science Learning Standards 4-5 grade band.</p>	<p>Site Related PD Part 4 (6 hrs-one day): Implementation and reflection</p> <p>Anticipated Activity Types: Implement formative assessments included in teacher created learning progressions. Reflect and record results on a weekly basis and participate in supportive asynchronous on-line discussions with other participating teachers, higher ed faculty, and PD providers about their implementation.</p> <p>Targeted Concepts: Formative Assessment, Learning Progressions in Science, Big Ideas from WA Science Learning Standards 4-5 grade band.</p>	<p>Site Related PD Part 4 (2 hrs-one day): Implementation and reflection</p> <p>Anticipated PD Supports Support content needs that arise during teacher implementation of learning progressions through on line asynchronous discussions with participating teachers.</p>	<p>Site Related PD Part 4 (3 hrs-one day): Implementation and reflection</p> <p>Anticipated PD Supports Support needs that arise during teacher implementation of learning progressions through on line asynchronous discussions with participating teachers or site visits as needed.</p> <p>Visit a subset of implementing teacher classrooms to observe/ inform design of the mid trimester check in.</p> <p>Visit with building administrator to discuss how teacher learning and activities can be supported.</p>

Late Spring		<p>Anticipated Planning and PD Design Activities</p> <p>Review teacher reflections, meet with the faculty lead and NWESD to discuss implementation issues and inform PD experience #6 design.</p>	<p>Anticipated Planning and PD Design Activities</p> <p>Review teacher reflections, meet with lead teachers and NWESD to discuss implementation issues and inform PD experience #6 design.</p>	<p>Anticipated Planning and PD Design Activities</p> <p>Review teacher reflections, meet with lead teachers and faculty lead to discuss implementation issues design PD experience #6.</p>
Summer	<p>PD Experience # 6 (12hrs-two days): Whole group PD and instructional materials based product development</p> <p>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.</p> <p>Targeted Concepts: Formative Assessment, Learning Progressions in Science.</p> <p>Product Developments Learning progression for spring set of instructional materials, summative material-specific assessment.</p>	<p>PD Experience #6 (12hrs-two days): Whole group PD and instructional materials based product development</p> <p>Anticipated Activity Types: Reflect on the Process of Learning Progression Creation, give feedback to the design team as to final development model .</p> <p>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.</p> <p>Targeted Concepts: Formative Assessment, Learning Progressions in Science.</p> <p>Product Developments Learning progression for spring set of instructional materials, summative material-specific assessment, process guide for learning progression development model.</p>		<p>PD Experience #6 (12hrs-two days): Whole group PD and instructional materials based product development</p> <p>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.</p> <p>Product Developments Process guide for learning progression development model, workshop facilitation guidelines, documents, on-line supports, formative assessment training manuals and other products .</p>

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