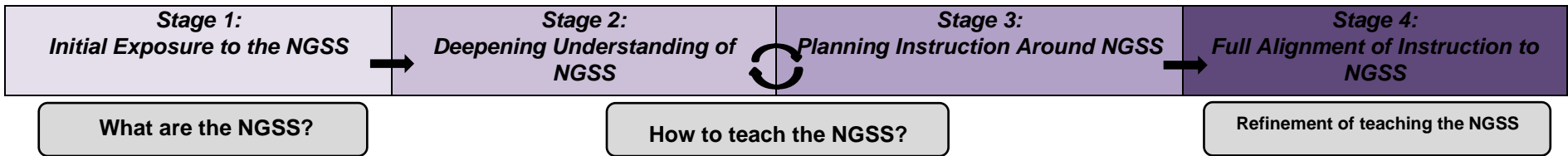
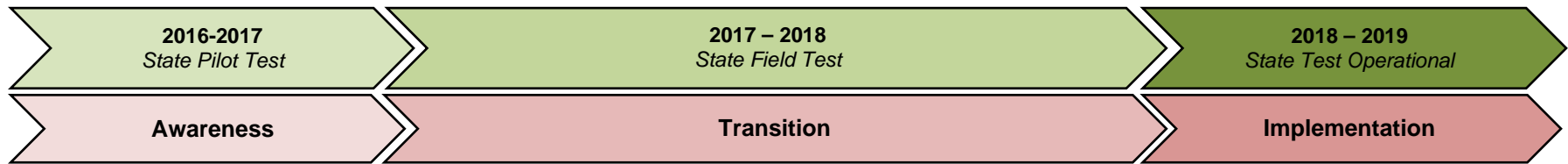


**Greenfield Union School District
Next Generation Science Standards
Implementation Plan for Certificated Staff**



Stage 1 Initial Exposure to NGSS	Stage 2 Deepening Understanding of NGSS	Stage 3 Planning Instruction around NGSS	Stage 3 Full Alignment of Instruction
Teachers are beginning to learn and become familiar with the Conceptual Shifts (Innovations), the three dimensions of learning, and the performance expectations of the NGSS	Teachers engage in on-going research and the building of personal understanding of the Conceptual Shifts (Innovations), the three dimension of learning, and the performance expectations of the NGSS	Teachers begin planning lessons and units aligned to the three dimensions and performance expectations of the NGSS, returning to the previous stage as needed to ensure coherence with the Conceptual Shifts (Innovations) of the NGSS	Teachers design and plan instruction aligned to NGSS curriculum and assessment
Outcomes	Outcomes	Outcomes	Outcomes
<ul style="list-style-type: none"> Describe the Conceptual Shifts (Innovations) of the NGSS and discuss implications for teaching and learning Identify the three-dimensions of the NGSS Explain the anatomy and architecture of a NGSS standard Identify NGSS resources for further study and information 	<ul style="list-style-type: none"> Express how teaching and learning look in the NGSS For any standard, identify each of the dimensions connected to the performance expectation Describe what a Science and Engineering Practice and Crosscutting Concept would look like in their classroom, providing examples of how they might engage students in these dimensions For a performance expectation, identify a possible performance task that would assess student learning around the performance expectation 	<ul style="list-style-type: none"> Review grade level or subject area performance expectations Take a current lesson/unit and translate it to the NGSS Using the BSCS 5E Instructional Model, plan a learning cycle that integrates the three dimensions of the NGSS Identify and describe a performance task that could be used in the classroom to assess student performance and understanding around a performance expectation or multiple performance expectations 	<ul style="list-style-type: none"> Implement formative and summative assessments aligned to NGSS Create curriculum maps or implement district curriculum guides Implement NGSS adopted curriculum that is aligned to AIM, EQuIP, or similar rubrics
Professional Development	Professional Development	Professional Development	Professional Development
NGSS Awareness Training (Administrator, CS, & Coaches): March/April 2017 NGSS Awareness Training (Teachers): May 2017 <ul style="list-style-type: none"> 1 hour TK-6, 7/8 Science NGSS Awareness Training (Teachers): June 2017 Optional 2 hour training <ul style="list-style-type: none"> TK-8th 	NGSS Awareness Training (Teachers): August 2017 Optional 2 hour training <ul style="list-style-type: none"> TK-8th NGSS Awareness Training (Teachers) by October 2017 (1 hr) <ul style="list-style-type: none"> TK-8th 	NGSS Planning Instruction Training (Teachers): Spring 2018 <ul style="list-style-type: none"> TK-8th Online series 	NGSS Planning Instruction Training (Teachers): Fall 2018 Optional 2 hour training <ul style="list-style-type: none"> TK-6 NGSS Alignment Training (Teachers): Spring 2018 (1/2 to full day) <ul style="list-style-type: none"> Site selected teachers

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NGSS Professional Development Plan

2016-2017	2017-2018	2018-2019
<p><u>NGSS Awareness Training (1-2 hour)</u> Who Attends:</p> <ul style="list-style-type: none"> Administration CSs, ACs <p>Trainer: CS When: Spring 2017 Purpose: To learn and become familiar with the Conceptual Shifts (Innovations), the three dimensions of learning, and the performance expectations of the NGSS</p> <p><u>NGSS Awareness Training Academic Coaches (2-3 hours)</u> Who Attends:</p> <ul style="list-style-type: none"> Academic Coaches <p>Trainer: CS When: April 2017 Purpose: To learn and become familiar with the Conceptual Shifts (Innovations), the three dimensions of learning, and the performance expectations of the NGSS <i>Note: A PPT will be shared to use when sharing info with site.</i></p> <p><u>NGSS Awareness Training for TK-8 Teachers (1 hour)</u> Who Attends:</p> <ul style="list-style-type: none"> All TK-8 Science teachers required <p>Trainer: Academic Coach/CS When: May 2017 Purpose: To learn and become familiar with the Conceptual Shifts (Innovations), the three dimensions of learning, and the performance expectations of the NGSS</p> <p><u>Optional NGSS Awareness Training for Teachers (2 hr.)</u> Who Attends:</p> <ul style="list-style-type: none"> TK-2nd 3rd-8th <p>Trainer: CS with Science Teachers When: June 2017 Purpose: To learn and become familiar with the Conceptual Shifts (Innovations), the three dimensions of learning, and the performance expectations of the NGSS</p>	<p><u>Optional NGSS Awareness Training for Teachers (2 hr.)</u> Who Attends:</p> <ul style="list-style-type: none"> TK-2nd 3rd-8th <p>Trainer: CS with Science Teachers When: August 2017 Purpose: To learn and become familiar with the Conceptual Shifts (Innovations), the three dimensions of learning, and the performance expectations of the NGSS</p> <p><u>NGSS Awareness Training for TK-8 Teachers (1 hour)</u> Who Attends:</p> <ul style="list-style-type: none"> All TK-8 who have not yet received training <p>Trainer: Academic Coach/CS When: Complete by October 2017 Purpose: To learn and become familiar with the Conceptual Shifts (Innovations), the three dimensions of learning, and the performance expectations of the NGSS</p> <p><u>NGSS Planning Instruction Training for Teachers Online Series (2 ½ hours)</u> Who Attends:</p> <ul style="list-style-type: none"> TK-8; 7/8th Science <p>When: Spring 2018 (3 sessions) Trainer: CS with Science Teachers Purpose: To plan lessons and units aligned to the three dimensions and performance expectations of the NGSS</p> <p><u>Session 1 (30 min)</u> Using the BSCS 5E Instructional Model to plan</p> <p><u>Session 2 (1 hr)</u> Take a current lesson/unit and translate it to the NGSS</p> <p><u>Session 3 (1 hr)</u> Identify and describe a performance task that could be used in the classroom to assess student performance</p>	<p><u>Optional NGSS Planning Instruction Training for Teachers (2 hr)</u> Who Attends:</p> <ul style="list-style-type: none"> TK-6 Teachers Teachers who would like one-on-one help with planning instruction <p>When: Summer 2018 Trainer: CS with Science Teachers Purpose: To plan lessons and units aligned to the three dimensions and performance expectations of the NGSS</p> <ul style="list-style-type: none"> Using the BSCS 5E Instructional Model to plan Take a current lesson/unit and translate it to the NGSS Identify and describe a performance task that could be used in the classroom to assess student performance <p><u>NGSS Alignment Training for Teachers (1/2-Full day)</u> Who Attends:</p> <ul style="list-style-type: none"> TK-8; 7/8th Science required Site selected teachers <p>When: Spring 2018 Trainer: CS/Teachers Purpose: To design and plan NGSS curriculum and assessment</p> <ul style="list-style-type: none"> Implement formative and summative assessments aligned to NGSS Create curriculum maps or implement district curriculum guides