

Science Instructional Framework Lesson Planning Guide Tool for K-2

Teacher: _____ Grade: _____ Week Of: _____

PLANNING: Engage, Explore, Explain, Extend, Evaluate ASSESSMENT: Progress Monitoring, Checking for Understanding, Products of Learning, Tests, Anecdotal Notes	ENVIRONMENT: Engage, Explore, Explain, Extend	Minutes:	Components:	Format/ Materials:	Active Literacy Components:	What should be seen/heard:				
		Standard(s) Addressed:								
		ENGAGEMENT:	5 Minutes	<input type="checkbox"/> Whole Group <input type="checkbox"/> Small Group <input type="checkbox"/> Literacy Tools <input type="checkbox"/> Electronic Tools <input type="checkbox"/> Charts/Organizers <input type="checkbox"/> Real-World Objects	<input type="checkbox"/> Reading <input type="checkbox"/> Writing/Drawing <input type="checkbox"/> Talking/Listening <input type="checkbox"/> Viewing <input type="checkbox"/> Investigating	<input type="checkbox"/> Provide a hook, question, or activity to stimulate curiosity and inquiry <input type="checkbox"/> Questioning and building background knowledge <input type="checkbox"/> Teacher showing real-world connections through photographs, objects, videos, etc. <input type="checkbox"/> Students asking questions and providing information				
		<ul style="list-style-type: none"> ENGAGE Students engage with a scientific question, event, or phenomenon. 	<input type="checkbox"/> Posing Question <input type="checkbox"/> Observation of Phenomenon <input type="checkbox"/> Brainstorming including the use of digital resources (Kaboot, Socrative, etc.) <input type="checkbox"/> Launch Activity	<input type="checkbox"/> Whole Group <input type="checkbox"/> Small Group <input type="checkbox"/> Individual <input type="checkbox"/> Literacy Tools <input type="checkbox"/> Electronic Tools <input type="checkbox"/> Charts/Organizers <input type="checkbox"/> Real-World Objects <input type="checkbox"/> Kits/Other	<input type="checkbox"/> Reading <input type="checkbox"/> Writing/Drawing <input type="checkbox"/> Talking/Listening <input type="checkbox"/> Viewing <input type="checkbox"/> Investigating	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Student</th> <th style="width: 50%; text-align: center;">Teacher</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> Collecting, sorting, organizing, <input type="checkbox"/> Science Talk/ Arguments <input type="checkbox"/> Create representation <input type="checkbox"/> Looking for patterns <input type="checkbox"/> Provide estimates </td> <td style="vertical-align: top;"> <input type="checkbox"/> Anticipate student responses and difficulty <input type="checkbox"/> Observe students' strategies/representations <input type="checkbox"/> Select solutions to share in the Science Evaluation Component </td> </tr> </tbody> </table>	Student	Teacher	<input type="checkbox"/> Collecting, sorting, organizing, <input type="checkbox"/> Science Talk/ Arguments <input type="checkbox"/> Create representation <input type="checkbox"/> Looking for patterns <input type="checkbox"/> Provide estimates	<input type="checkbox"/> Anticipate student responses and difficulty <input type="checkbox"/> Observe students' strategies/representations <input type="checkbox"/> Select solutions to share in the Science Evaluation Component
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		<ul style="list-style-type: none"> EXPLORE Students explore ideas through hands-on experiences, formulate and test hypotheses, solve problems, and create explanations for what they observe. 	15 Minutes <input type="checkbox"/> Problem Solving Task <input type="checkbox"/> Investigation <input type="checkbox"/> Construct a Model <input type="checkbox"/> Read Authentic Sources	<input type="checkbox"/> Small Flexible Groups <input type="checkbox"/> Individual <input type="checkbox"/> Literacy Tools <input type="checkbox"/> Electronic Tools <input type="checkbox"/> Charts/Organizers <input type="checkbox"/> Real-World Objects <input type="checkbox"/> Kits/Other	<input type="checkbox"/> Reading <input type="checkbox"/> Writing/Drawing <input type="checkbox"/> Talking/Listening <input type="checkbox"/> Viewing <input type="checkbox"/> Investigating	<input type="checkbox"/> Conferring with students <input type="checkbox"/> Implements tiered tasks <input type="checkbox"/> Facilitate instruction based on students' needs and standards <input type="checkbox"/> Demonstrates skills <input type="checkbox"/> Monitoring of student responses and provides explicit feedback <input type="checkbox"/> Anecdotal note-taking <input type="checkbox"/> Checking for understanding, questioning				
		<ul style="list-style-type: none"> EXTEND Students extend their new understanding and abilities and apply what they have learned to a new situation 	20 Minutes (Could Combine with Small Group) <input type="checkbox"/> Student analysis <input type="checkbox"/> Justifications with supporting evidence <input type="checkbox"/> Structured questioning with a variety of DOK questions <input type="checkbox"/> Reading, discussing, and explaining (with each other) <input type="checkbox"/> Thinking Skills <input type="checkbox"/> Problem-Solving, <input type="checkbox"/> Decision-Making, <input type="checkbox"/> Inquiry <input type="checkbox"/> Support Ideas/Claims with evidence	<input type="checkbox"/> Small Group <input type="checkbox"/> Individual <input type="checkbox"/> Electronic Tools <input type="checkbox"/> Charts/Organizers <input type="checkbox"/> Real-World Objects <input type="checkbox"/> Kits/Other	<input type="checkbox"/> Reading <input type="checkbox"/> Writing/Drawing <input type="checkbox"/> Talking/Listening <input type="checkbox"/> Viewing <input type="checkbox"/> Investigating	<input type="checkbox"/> Engages in independent practice <input type="checkbox"/> Participates in small group instruction <input type="checkbox"/> Evaluating scientific thinking <input type="checkbox"/> Actively listening and documenting scientific explanations <input type="checkbox"/> Practicing skills in supported context <input type="checkbox"/> Applying science skills to real world situations <input type="checkbox"/> Sharing solutions to problem solving tasks				
TEACHING:	<ul style="list-style-type: none"> EXTEND, EXPLAIN Students extend their new understanding and abilities and apply what they have learned to a new situation 	<input type="checkbox"/> Whole Group	<input type="checkbox"/> Reading <input type="checkbox"/> Writing/Drawing <input type="checkbox"/> Talking/Listening <input type="checkbox"/> Viewing	<input type="checkbox"/> Highlighting sequenced representations and strategies strategically <input type="checkbox"/> Summarize big ideas and define key vocabulary <input type="checkbox"/> Highlight objective for the day ("we can... statement") <input type="checkbox"/> Reflect on new learning						
<ul style="list-style-type: none"> EVALUATE Students, with their teachers, review and assess what they have 	5 Minutes Closure Checking for Understanding Setting the Stage for next lesson	<input type="checkbox"/> Whole Group	<input type="checkbox"/> Reading <input type="checkbox"/> Writing/Drawing <input type="checkbox"/> Talking/Listening <input type="checkbox"/> Viewing	<input type="checkbox"/> Engages in independent practice <input type="checkbox"/> Participates in small group instruction <input type="checkbox"/> Evaluating scientific thinking <input type="checkbox"/> Actively listening and documenting scientific explanations <input type="checkbox"/> Practicing skills in supported context <input type="checkbox"/> Applying science skills to real world situations <input type="checkbox"/> Sharing solutions to problem solving tasks						



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