

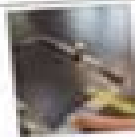

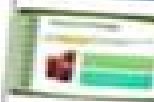





5th Grade NGSS Pacing Guide

5-PS1-3 Properties of Matter		
Day	Phenomena/Activities	Resources
Day 1	<p>Phenomenon: A student is investigating the properties of matter. They are asked to identify the properties of matter that are the same for all substances and the properties that are different for different substances.</p>	
Day 2	<p>Phenomenon: A student is investigating the properties of matter. They are asked to identify the properties of matter that are the same for all substances and the properties that are different for different substances.</p>	
Day 3	<p>Phenomenon: A student is investigating the properties of matter. They are asked to identify the properties of matter that are the same for all substances and the properties that are different for different substances.</p>	
Day 4	<p>Phenomenon: A student is investigating the properties of matter. They are asked to identify the properties of matter that are the same for all substances and the properties that are different for different substances.</p>	
5-PS1-4 Evidence of Chemical Reactions		
Day	Phenomena/Activities	Resources
Day 1	<p>Phenomenon: A student is investigating the evidence of chemical reactions. They are asked to identify the evidence of chemical reactions that are the same for all reactions and the evidence that is different for different reactions.</p>	
Day 2	<p>Phenomenon: A student is investigating the evidence of chemical reactions. They are asked to identify the evidence of chemical reactions that are the same for all reactions and the evidence that is different for different reactions.</p>	
Day 3	<p>Phenomenon: A student is investigating the evidence of chemical reactions. They are asked to identify the evidence of chemical reactions that are the same for all reactions and the evidence that is different for different reactions.</p>	
Day 4	<p>Phenomenon: A student is investigating the evidence of chemical reactions. They are asked to identify the evidence of chemical reactions that are the same for all reactions and the evidence that is different for different reactions.</p>	

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Aligned**

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Cassie F. Quigley, Danielle Herro

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conceptual model with specific strategies such as problem based learning student choice technology integration and teacher facilitation Updated with an increased focus on emerging technologies culturally relevant strategies and lessons from classrooms Materials to support authentic assessment such as rubrics STEAM units and formative assessment examples

Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices

Christina V. Schwarz,Cynthia Passmore,Brian J. Reiser ,2017-01-31 When it s time for a game change you need a guide to the new rules Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices provides a play by play understanding of the practices strand of A Framework for K 12 Science Education Framework and the Next Generation Science Standards NGSS Written in clear nontechnical language this book provides a wealth of real world examples to show you what s different about practice centered teaching and learning at all grade levels The book addresses three important questions 1 How will engaging students in science and engineering practices help improve science education 2 What do the eight practices look like in the classroom 3 How can educators engage students in practices to bring the NGSS to life Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices was developed for K 12 science teachers curriculum developers teacher educators and administrators Many of its authors contributed to the Framework s initial vision and tested their ideas in actual science classrooms If you want a fresh game plan to help students work together to generate and revise knowledge not just receive and repeat information this book is for you *Make It*

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Step Into STEAM, Grades K-5 Sarah B. Bush,Kristin L. Cook,2019-03-14 How do you

create an innovative and equitable classroom experience that prepares elementary students for jobs that don't yet exist while placing a critical focus on mathematics and science content and practice standards all while meeting the demands of high stakes testing The answer to this question is Step into STEAM which provides a practical and accessible approach for educators to create meaningful and transformative learning experiences for each and every student This book guides and inspires K-5 educators through a seamless process of designing and implementing STEAM inquiries that align carefully to key mathematics and science content and practices Taking an opposite approach to existing resources that provide collections of disjointed STEAM activities this book empowers teachers and schools to build cohesive and sustainable STEAM infrastructures grounded in grade level standards and purposeful assessment to deepen the mathematics and science learning of each and every student STEAM instruction is for each and every student STEAM instruction is about mathematics and STEAM instruction can and should be implemented for student success and to engage students in making their community and our world a better place Loaded with resources to help K-5 teachers and instructional leaders develop implement and assess meaningful STEAM inquiries this research based book Provides practical on the go resources to help busy teachers get started in creating purpose driven STEAM instruction Allows educators to interact deeply with the content and create equitable STEAM experiences that blend community and societal interests Includes online companion printable resources to help educators jumpstart or deepen STEAM learning throughout a school or district supporting STEAM professional development professional learning communities and book studies Checklists pictures graphic organizers reflection questions Try it Out sections and example STEAM inquiries help teachers seamlessly connect multiple subject areas create transformative learning experiences engage elementary students in developing creativity and empathy and enable students to solve meaningful and authentic problems for others all to prepare students for their bright futures Make the most of your limited instructional time and become part of the Step into STEAM movement Through carefully crafted research based frameworks inspirational authentic and approachable practical strategies rooted in the reform efforts of student centered STEAM learning and opportunities for professional self reflection Step into STEAM rightfully re-elevates educators to their proper places as innovation experts and agents of change in their own classrooms schools districts and communities An inspirational step in a needed direction this book from Drs Bush and Cook is what educators have been craving a guide to transforming ourselves our learning spaces and our profession Richard Cox Jr Expert STEAM Teacher Instructional Coach Bullitt County Public Schools Step into STEAM offers a rare opportunity for anyone concerned with education to consider what learning would be like with equity empathy and experience By providing examples from teachers who have dared to put children first this book offers more than just new way to teach it offers hope for youth today By considering what youth will need to be successful in jobs that are not yet created Cook and Bush provide a platform for educators to create authentic real world problem solving in classrooms with attention on the often forgotten about

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 transfer lectures will include donor mare management embryo collection procedures embryo evaluation recipient mare
 management the art of transferring embryos cooled transport of embryos problems encountered in equine

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 embryos at 5 c and thus ship them to a centralized station for transfer into recipient mares

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web embryo transfer in the equine industry has been primarily used to obtain offspring from mares with restricted
 reproductive potential mares with undiagnosed subfertility uterine disease or simply older mares or from performance mares
 that must remain nonpregnant to continue to train and compete

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 efficient use of valuable mares and mares in athletic competition in addition mares with

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 add to mendeley doi org 10 1016 j jevs 2013 03 007 get rights and content the first successful equine embryo transfer was
 reported in 1972 21 years after the first reported embryo transfer

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 embryos to

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the uterus through the midline or flank and 2 nonsurgically by penetration of the cervix surgical transfer embryos were transferred by midventral incision in initial studies at our laboratory

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