

Hopkins County Schools
 Grade: First
 NGSS Pacing Guide & Curriculum Map

Marking Period	NGSS Disciplinary Core Ideas	Science Lesson Chapter & Title	Essential Question	I Can...	Key Vocabulary
1 st Trimester	Practice 1: Planning and Carrying Out Investigations/ Practice 4: Analyzing and Interpreting Data	MPPS Chapter 6: Bubbles	Can you ask questions, carry out experiments that will help you find your answer, and explain your results?	I can ask a question, carry out an experiment to find the answer, and explain the results by drawing what happened.	Experiment Data Free-floating Observe Explain Results
1 st Trimester	Practice 4: Analyzing and Interpreting Data	MPPS Chapter 4: Hear Your Heart	Can you predict results, collect data, and evaluate your prediction?	I can predict results, collect data, and evaluate my predictions.	Data Stethoscope Similarities Differences Prediction - (Anticipation Guide) Evaluate
1 st Trimester	ESS1.A The Universe and Its Stars/ ESS1.B Earth and the Solar System	MPPS Chapter 18: Stargazers	Why do objects in the sky seem to move?	I can make observations about stars and describe what a constellation is.	Star Constellation Astronomy Light Gas Pattern Galaxy

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1 st Trimester	ESS1.A The Universe and its Stars	PPS Chapter 17: The Changing Moon	Why does the moon seem to change shape?	I can make daily observations and record data.	Moon Phases Sun Light Rotate
1 st Trimester	ESS1.B Earth and the Solar System	PPS Chapter 18: Day and Night	Why does the sun appear to move across the sky?	I can make observations and record data.	Rotate Sun Light East West
2 nd Trimester	PS4.B Electromagnetic Radiation	MPPS Chapter 15: Mirror, Mirror	What effect does light have on my environment and what objects reflect light?	I can describe how light affects my environment and how different objects reflect light.	Light Reflect Environment Bounce
2 nd Trimester	PS4.A Wave Properties/ PS4.C Information Technologies and Instrumentation	EMPPS Chapter 10: Sounds All Around	How does sound travel through matter?	I can determine how sound travels through different types of matter.	Sound Vibrate Solid Liquid Gas Medium Bump Particles Frequency Sound waves Decibels Eardrum

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2 nd Trimester	ETS1.A Defining and Delimiting Engineering Problems/ ETS1.B Developing Possible Solutions/ ETS1.C Optimizing the Design Solution	MPPS Chapter 19: Imaginative Inventions ("Leo Cockroach Toy Tester")	How do inventions fulfill needs and wants?	I can design a drawing or model to show how I improve an existing toy.	Design Invention Engineer Model Risk
2 nd Trimester	LS1.A Structure and Function	MPPS Chapter 11: Over in the Ocean	Can you observe the special characteristics of different animals and describe them?	I can observe the special characteristics of different animals and describe them.	Observation Characteristics Describe Coral Reef Sort Questioning
3 rd Trimester	LS1.A Structure and Function	EMPPS Chapter 13: Unbeatable Beaks	What external parts do organisms have to help them survive?	I can describe what shape of beak a bird would need to survive in its habitat.	Ornithology Beak Predator Observe Characteristics Bill

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3 rd Trimester	LS1.B Growth and Development of Organisms	EMPPS Chapter 15: Amazing Caterpillars	Do all offspring look exactly like their parents?	I can explain the life cycle of a butterfly.	Trait Metamorphosis Life Cycle Egg Larva Pupa Chrysalis Adult Caterpillar Butterfly Insect Frass – (caterpillar waste) Meconium Proboscis
3 rd Trimester	LS1.A Structure and Function	http://www.compton.k12.ca.us/pages/departments/Curriculum/PDF/1stGradeUnitBChp3_5.pdf	What are the parts of the plant and how do they help them live and grow?	I can sing the plant song to show that I know the parts of the plant and what they do to help a plant live.	Seed Root Stem Leaves Flower Fruit Water Nutrients Soil Sunlight Energy
3 rd Trimester	LS3.A Inheritance of Traits/ LS3.B Variation of	http://www.internet4classrooms.com/grade_level_help/life_science_parents_offspring_first_1st_grade_science.htm	Do all offspring look exactly like their parents?	I can match an offspring to its parent based	Offspring Parent Trait

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	Traits			upon its traits.	Inherited
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