

Hopkins County Schools
 Grade 5
 NGSS Pacing Guide & Curriculum Map

Marking Period	NGSS Disciplinary Core Ideas	Science Lesson Chapter & Title	Essential Question	I Can...	Key Vocabulary
1 st Trimester	ETS1.A,B,C	https://www.youtube.com/watch?v=CGFoUIUaBzI&index=56&list=PLlIVwaZQkS2rtZG_L7ho89oFsaYL3kUWq https://www.youtube.com/watch?v=IUwiUJCXbqI&index=57&list=PLlIVwaZQkS2rtZG_L7ho89oFsaYL3kUWq https://www.youtube.com/watch?v=SlubyxbJx84&list=PLlIVwaZQkS2rtZG_L7ho89oFsaYL3kUWq&index=58	What are possible solutions to a problem?	I can define a problem to plan and carry out fair tests to find a solution.	Problem Solution Variable
	LS1.C: Organization for Matter and Energy Flow in Organisms	http://www.resa.net/curriculum/curriculum/science/professiona/development/ngss-pd/lesson-plans-exploring-ngss/ Lesson: Germinating Seeds https://www.youtube.com/watch?v=q52qtdrvah8&index=32&list=PLlIVwaZQkS2rtZG_L7ho89oFsaYL3kUWq	Where do plants get the materials they need to grow?	I can explain that a seed needs warmth, water, and oxygen to grow.	Germinate Hydroponic systems

Hopkins County Schools
 Grade 5
 NGSS Pacing Guide & Curriculum Map

	LS2.A: Interdependent Relationships in Ecosystems	PPS Chapter 10: Mystery Pellets	How are organisms related in a food web?	I can describe the relationship between organisms in a food web.	Producer Consumer Decomposer Herbivore Omnivore Carnivore Food web Food chain
	LS2.A: Interdependent Relationships in Ecosystems	PPS Chapter 11: Close Encounters of the Symbiotic Kind	How do organisms interact with one another?	I can explain how one organism benefits from another through symbiosis.	Symbiosis Parasitism Host Commensalism Mutualism
	LS2.B: Cycles of Matter and Energy Transfer in Ecosystems	https://www.youtube.com/watch?v=x37DJLcJ0dI&index=35&list=PLIIVwaZQkS2rtZG_L7ho89oFsaYL3kUWq http://concord.org/stem-resources/leaf-photosynthesis (activity)	How does matter move between plants, animals, decomposers, and the environment?	I can develop a model to describe the movement of matter.	Organism Decomposer Microbe Ecosystem
2nd Trimester	ESS1.A: The Universe and Its Stars ESS1.B: Earth and the Solar System	MPPS Chapter 18: Stargazers http://concord.org/stem-resources/there-life-space (activity)	Why do some stars appear larger and brighter than others?	I can explain how distance effects the apparent brightness of the sun compared to other stars.	Constellations Astronomer
	ESS1.B: Earth and the Solar System	PPS Chapter 18: Day and Night	What do the movements of the Earth have to do with how we keep time?	I can relate the position of the Earth to how we keep time.	Time zones Rotation International date line

Hopkins County Schools
 Grade 5
 NGSS Pacing Guide & Curriculum Map

	ESS1.B: Earth and the Solar System	EMPPS Chapter 19: Sunsets and Shadows	Why does the length of a shadow change as the Sun appears to move across the sky?	I can explain why a person's shadow looks different throughout the day.	Rotation Twilight
	ESS2.A: Earth Materials and Systems ESS2.C: The Roles of Water in Earth's Surface Processes	http://www.resa.net/curriculum/curriculum/science/professiona/development/ngss-pd/lesson-plans-exploring-ngss/ Lesson: Water Cycle http://concord.org/stem-resources/will-there-be-enough-fresh-water (activity)	How do Earth's systems interact?	I can develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact	Ecosystems Geosphere Biosphere Hydrosphere Atmosphere Water cycle
	ESS3.C: Human Impacts on Earth Systems	https://www.youtube.com/watch?v=lrzZ_UqQKyl&index=54&list=PLlIVwaZQkS2rtZG_L7ho89oFsaYL3kUWq http://www.resa.net/downloads/science_pd/destroy_or_not_to_destroy_ms_terrell_20150108_141019_42.pdf (activity)	How do human activities impact the Earth?	I can obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment?	Greenhouse effect Agricultural systems Ecosystems Vegetation

Hopkins County Schools
 Grade 5
 NGSS Pacing Guide & Curriculum Map

		http://concord.org/stem-resources/can-we-feed-growing-population (activity) http://concord.org/stem-resources/what-future-earths-climate (activity) http://concord.org/stem-resources/greenhouse-effect-greenhouse (activity) http://concord.org/stem-resources/will-air-be-clean-enough-breathe (activity)			
3 rd Trimester	PS1.A: Structure and Properties of Matter	http://www.resa.net/curriculum/curriculum/science/professiona/development/ngss-pd/lesson-plans-exploring-ngss/ Lesson: Properties of Matter http://concord.org/stem-resources/phase-change (activity)	What are the structures and properties of matter?	I can make observations and measurements to identify materials based on their properties.	Matter Particles

Hopkins County Schools
 Grade 5
 NGSS Pacing Guide & Curriculum Map

	PS1.B: Chemical Reactions	PPS Chapter 16: Chemical Change Café http://concord.org/stem-resources/chemical-bonds (activity)	What is the difference between a physical change and a chemical change?	I can create a chemical change by mixing two or more different substances.	Chemical change Physical change Properties Matter Cause and effect
	PS2.B: Types of Interactions	MPPS Chapter 14: Roller Coasters http://concord.org/stem-resources/bridges (activity)	How does gravitational force effect objects on Earth?	I can demonstrate how size and position effect gravitational pull.	Gravity Air resistance
	PS3.D: Energy in Chemical Processes and Everyday Life	https://www.youtube.com/watch?v=A2_dqncfRIw&index=26&list=PLIIVwaZQkS2rtZG_L7ho89oFsa_YL3kUWq	How does energy get in our food?	I can use models to describe that energy in animals' food was once energy from the sun.	Energy Chemical process

Notes: