

**Link Community Charter School**  
**Grde 7 Science: Life Science Scope and Sequence**

<b>Time Line</b>	<b>Unit Description/ Topic</b>	<b>Standards</b>	<b>Essential Questions?</b>	<b>Content: What will students know?</b>	<b>Skills: What will students be able to do?</b>	<b>Textbook/ Materials/ Resources</b>
M1	C1:What is life	MS-LS1-1	How are you like other living things?	L1: What is life? L2: Classifying Life L3: Domains and Kingdoms L4: Evolution and Classification	Identify the characteristics of life. Conduct an investigation to provide evidence that living things are made of cells; either one cell or many different numbers and types of cells. Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past.	Interactive Science: Life Science
M1	C2: Introduction to Cell	MS-LS1-1	What are cells made of?	L1: Discovering Cells L2: Looking Inside Cells L3: Chemical Compounds in Cells L4: The Cell in Its Environment	Conduct an investigation to provide evidence that living things are made of cells; either one cell or many different numbers and types of cells. [Clarification Statement: Emphasis is on developing evidence that living things are made of cells, distinguishing between living and non-living things, and understanding that living things may be made of one cell or many and varied cells.]	Interactive Science: LifeScience

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M1	C3: Cell Processes and Energy	MS-LS1-3	How do Living Things get Energy?	L1: Photosynthesis L2: Cellular Respiration L3: Cell Division	Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells. [Clarification Statement: Emphasis is on the conceptual understanding that cells form tissues and tissues form organs specialized for particular body functions. Examples could include the interaction of subsystems within a system and the normal functioning of those systems.] <i>[Assessment Boundary: Assessment does not include the mechanism of one body system independent of others. Assessment is limited to the circulatory, excretory, digestive, respiratory, muscular, and nervous systems.]</i>	Interactive Science: Life Science
M2	C4: Genetics: The Science of Heredity	MS - LS1-B	Why don't offspring always look like their parents?	L1: What Is Heredity? L2: Probability and Heredity L3: Patterns of Inheritance L4: Chromosomes and Inheritance	Animals engage in characteristic behaviors that increase the odds of reproduction. (MS-LS1-4) Animals engage in characteristic behaviors that increase the odds of reproduction. (MS-LS1-4) Plants reproduce in a variety of ways, sometimes depending on animal behavior and specialized features for reproduction. (MS-LS1-4) Genetic factors as well as local conditions affect the growth of the adult plant. (MS-LS1-5)	Interactive Science: Life Science

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M2	C5: DNA: The Code of Life	MS - LS1-B	What does DNA do?	L1: The Genetic Code L2: How Cells Make Proteins L3: Mutations L4: Human Inheritance L5: Advances in Genetics	Plants reproduce in a variety of ways, sometimes depending on animal behavior and specialized features for reproduction. (MS-LS1-4)	Interactive Science: Life Science
M2	C6: Change Over Time	MS - LS1-B	How do life forms change over time?	L1: Darwin's Theory L2: Evidence of Evolution L3: Rate of Change	Genetic factors as well as local conditions affect the growth of the adult plant. (MS-LS1-5)	Interactive Science: Life Science
M3	C7: Viruses, Bacteria, Protists, and Fungi	MS - LS4-6	How are living things other than plants and animals important to Earth?	L1: Viruses L2: Bacteria L3: Protists L4: Fungi	Use mathematical representations to support explanations of how natural selection may lead to increases and decreases of specific traits in populations over time. [Clarification Statement: Emphasis is on using mathematical models, probability statements, and proportional reasoning to support explanations of trends in changes to populations over time.] [Assessment Boundary: Assessment does not include Hardy Weinberg calculations.]	Interactive Science: Life Science
M3	C8: Plants	MS-LS1-4	How do you know a plant when you see it?	L1: What is a plant? L2: Classifying Plants L3: Plant Structures L4: Plant Reproduction L5: Plant Responses and Growth	Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively. Genetic factors as well as local conditions affect the growth of the adult plant. (MS-LS1-5)	Interactive Science: Life Science

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M3	C9: Introduction to Animals	MS-LS1-4	How do you know an animal when you see it?	L1: What Is an Animal? L2: Animal Body Parts L3: Introduction to Invertebrates L4: Vertebrates L5: Vertebrate Diversity	Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.	Interactive Science: Life Science
M4	C11: Introduction to the Human Body	MS-LS1-4	How does your body work?	L1: Body Organizaton L2: Systems Interactions L3: Homeostasis L4: The Skeletal System L5: The Muscular System L6: The Skin	Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.	Interactive Science: Life Science
M4	C12: Managing Materials in the Body	MS-LS1-4	How do systems of the body move and manage materials?	L1: Digestion L2: The Circulatory System L3: The Respiratory System L4: Excretion	Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.	Interactive Science: Life Science
M4	C14: Fighting Diseases	MS-LS1-4	Why do you sometimes get sick?	L1: Infectious Diseases L2: The Bod's Defences L3: Covalent Bonds HIV and AIDS L4: Infectious Disease and Your Health	Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.	Interactive Science: Life Science