

Science Grade 7 Scope & Sequence

Days	Unit	Standard(s)/Outcome(s)	Essential/Guiding Questions
30	Cells and Systems <ul style="list-style-type: none"> ● Unicellular & Multicellular ● Cell Structures ● Cell Growth & Repair ● Cell Transport ● Interacting Organ Systems 	MS-LS1-1 MS-LS1-2 MS-LS1-3 MS-LS1-7 MS-LS1-8 MS-PS1-3	<i>How do living things heal?</i>
30	Structure and Function (Seed to Tree) <ul style="list-style-type: none"> ● Plant Structures & Functions ● Photosynthesis 	MS-LS1-2 MS-LS1-3 MS-LS1-6 MS-LS1-7	<i>How does a seed grow into a tree?</i> <i>Where does the syrup come from?</i>
35	Genetics <ul style="list-style-type: none"> ● Environmental & Genetic Factors Impacting Growth ● Mutations Impacting Proteins ● Punnett Squares ● Pedigrees ● Asexual and Sexual Reproduction ● Advances in Genetics 	MS-LS1-2 MS-LS1-4 MS-LS1-5 MS-LS3-1 MS-LS3-2 MS-LS4-5	<i>Why are living things different from one another?</i>

35	<p>Natural Selection & Common Ancestry</p> <ul style="list-style-type: none"> ● Fossil Record ● Homologous Structures ● Evolutionary Relationships ● Embryological Development ● Genetic Variation Increasing Survival-Diverse Gene Pool ● Adaptation by Natural Selection ● Characteristic Animal Behavior Increasing Chance of Reproduction ● Biodiversity 	<p>MS-LS1-4 MS-LS4-1 MS-LS4-2 MS-LS4-3 MS-LS4-4 MS-LS4-6</p>	<p><i>How could things living today be connected to the things that lived long ago?</i></p>
35	<p>Ecosystem Dynamics</p> <ul style="list-style-type: none"> ● Levels of Organization in an Ecosystem- Abiotic/Biotic Factors ● Types of Interactions ● Populations ● Biomes ● Succession/ Biogeography ● Human Impact 	<p>MS-LS2-1 MS-LS2-2 MS-LS2-3 MS-LS2-4 MS-LS2-5 MS-ESS3-3 MS-ESS3-4 MS-ETS1-1</p>	<p>How does changing an ecosystem affect what lives there?</p>