

**Southern Cayuga Central School District – Curriculum Map**

**Subject: LIVING ENVIRONMENT**

**School Year: 2021-2022**

**Teacher: Michele Shaw**

| Title or Topics w/ NYS Standards | Essential Questions & Vocabulary   | Content Skills (Activities to cover Essential Questions)   | Major Assessments (Tests, Project, etc.)   | Additional Sources   | Time Frame     | Living Environment Core Curriculum Standard 4 & NYSSLS |
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| <p><b>Scientific Method</b></p>  | <p>1. How does a scientist begin to investigate observations/problems which are encountered in the natural world?</p> <p>2. What kind of logical steps can be taken to investigate phenomena in the world?</p> <p>3. How can data collection be used to evaluate such phenomena?</p> <p><b>Vocabulary:</b></p> <ul style="list-style-type: none"> <li>● Observations</li> <li>● Inferences</li> <li>● Qualitative</li> <li>● Quantitative</li> </ul> | <ul style="list-style-type: none"> <li>● Introduction to Scientific Method Worksheet/Notes</li> <li>● Redi Experiment Video</li> <li>● Isopod Experiment design</li> <li>● Isopod Experiment Conducted</li> <li>● Isopod Experiment Analyzed</li> <li>● Isopod Experiment Presentation</li> <li>● Basic Sampling Techniques (youtube)</li> <li>● Kahoot</li> </ul> | <ul style="list-style-type: none"> <li>● Lab: How do Biologists Estimate Population Size? (mark and recapture technique with beans)</li> <li>● Lab: Metric System</li> <li>● Lab: Safety</li> <li>● Lab: Graphing</li> <li>● Lab: Isopod Report</li> <li>● Isopod Presentation</li> <li>● Exam</li> <li>● Quizzes</li> </ul> | <p><a href="https://www.youtube.com/watch?v=KIGNNOZ0948">https://www.youtube.com/watch?v=KIGNNOZ0948</a></p> <p><a href="https://ny.pbslearningmedia.org/resource/nat15.sci.lisci.slothsleep/the-scientific-method-sloth-sleep-study">https://ny.pbslearningmedia.org/resource/nat15.sci.lisci.slothsleep/the-scientific-method-sloth-sleep-study</a></p> <p><a href="https://www.youtube.com/watch?v=WzbHOY5fGgc">https://www.youtube.com/watch?v=WzbHOY5fGgc</a></p> <p><a href="https://www.youtube.com/watch?v=fOpRgslfIQg">https://www.youtube.com/watch?v=fOpRgslfIQg</a></p> <p><a href="https://www.youtube.com/watch?v=bha34Aczoi0">https://www.youtube.com/watch?v=bha34Aczoi0</a></p> | <p>5 Weeks</p> | <p><u>Standard 1</u></p>                               |

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|  | <ul style="list-style-type: none"> <li>● Controls</li> <li>● Variables</li> <li>● Data</li> <li>● Research</li> <li>● Hypothesis</li> <li>● Conclusion</li> <li>● Procedure</li> <li>● Dependent</li> <li>● Independent</li> <li>● Theory</li> </ul> |  |  | <p><a href="https://www.youtube.com/watch?v=GQ6rTia_0ho">https://www.youtube.com/watch?v=GQ6rTia_0ho</a></p> <p><a href="https://www.youtube.com/watch?v=sVxKlsfi73g">https://www.youtube.com/watch?v=sVxKlsfi73g</a></p> <p><a href="https://www.youtube.com/watch?v=APdRR2bL_ZQ">https://www.youtube.com/watch?v=APdRR2bL_ZQ</a></p> <p><a href="https://www.youtube.com/watch?v=Vv73ywyrFlI">https://www.youtube.com/watch?v=Vv73ywyrFlI</a></p> <p><a href="https://www.youtube.com/watch?v=iXwUTHX1qQW">https://www.youtube.com/watch?v=iXwUTHX1qQW</a></p> <p><a href="https://www.youtube.com/watch?v=dvg2tsIMmPY">https://www.youtube.com/watch?v=dvg2tsIMmPY</a></p> <p><a href="https://www.youtube.com/watch?v=LqIGed59qbl">https://www.youtube.com/watch?v=LqIGed59qbl</a></p> <p><a href="https://www.youtube.com/watch?v=wxvg4XA5Y5Y">https://www.youtube.com/watch?v=wxvg4XA5Y5Y</a></p> <p><a href="https://prezi.com/Ovtmgt092rd">https://prezi.com/Ovtmgt092rd</a></p> |  |  |
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|                |   |   |   | <a href="https://claim-evidence-and-reasoning/?utm_campaign=share&amp;utm_medium=copy">8/claim-evidence-and-reasoning/?utm_campaign=share&amp;utm_medium=copy</a><br><br><a href="https://roaringearth/tongue-eating-parasitic-louse-replaces-fish-tongues/">https://roaringearth/tongue-eating-parasitic-louse-replaces-fish-tongues/</a>   |         |  |
| <b>Ecology</b> | <p>1. How do organisms interact with other organisms in the physical environment to obtain matter and energy?</p> <p>2. How do organisms interact with the living and non-living environment to obtain matter and energy?</p> <p><b>Vocabulary:</b></p> <ul style="list-style-type: none"> <li>● Abiotic</li> <li>● Biotic</li> <li>● Heterotrophs</li> <li>● Autotrophs</li> <li>● Carnivores</li> </ul> | <ul style="list-style-type: none"> <li>● Ecology Notes</li> <li>● Biotic and Abiotic Video (youtube)</li> <li>● Whales Help Fertilize Ocean with Floating Dung – NPR Video</li> <li>● Project Wild – Symbiotic Relationships Activity</li> <li>● BBC Nature Wildlife Adaptations and Behaviors Video</li> <li>● How the Wolves Change Rivers (youtube)</li> <li>● David Attenborough –Animal Partnerships (youtube)</li> <li>● Notes on why we need energy</li> </ul> | <ul style="list-style-type: none"> <li>● Lab: Classification of Leaves</li> <li>● Lab: Predator/Prey Simulation</li> <li>● HHMI – Food Chains and Webs – Creating Chains and Webs to Model Ecological Relationships</li> <li>● Lab: NYS Making Connections</li> <li>● Quizzes</li> <li>● Exam</li> <li>● Student presentations on Biomes</li> </ul> | <p><a href="https://www.youtube.com/watch?v=TLpc71Y0tcE">https://www.youtube.com/watch?v=TLpc71Y0tcE</a></p> <p><a href="https://biomanbio.com/HTML5Games/succession_interactive.html">https://biomanbio.com/HTML5Games/succession_interactive.html</a></p> <p><a href="https://www.youtube.com/watch?v=G0fDbTqgXjA">https://www.youtube.com/watch?v=G0fDbTqgXjA</a></p> <p><a href="https://sharemylesson.com/teaching-resource/ecological-succession-243949">https://sharemylesson.com/teaching-resource/ecological-succession-243949</a></p> <p><a href="https://www.youtube.com/watch?v=jZKIHe2LDP8">https://www.youtube.com/watch?v=jZKIHe2LDP8</a></p> | 7 Weeks | <p><u>Key Idea 6</u></p> <p><u>HS-LS-2-3</u></p> <p><u>HS-LS-2-4</u></p> <p><u>HS-LS-2-5</u></p> <p><u>HS-LS-2-1</u></p> <p><u>HS-LS-2-2</u></p> <p><u>HS-LS-2-6</u></p> <p><u>HS-LS-2-8</u></p> |

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|  | <ul style="list-style-type: none"> <li>● Omnivores</li> <li>● Nutritional Relationships</li> <li>● Symbiotic Relationships</li> <li>● Commensalism</li> <li>● Mutualism</li> <li>● Parasitism</li> <li>● Predator/Prey</li> <li>● Carrying Capacity</li> <li>● Ecosystem</li> <li>● Habitat</li> <li>● Niche</li> <li>● Biological Magnification</li> <li>● Biomass Pyramid</li> <li>● Energy Pyramid</li> <li>● Materials Cycle</li> <li>● Ecological Succession</li> <li>● Biomes</li> </ul> | <ul style="list-style-type: none"> <li>● HHMI Biointeractive – Video – The Guide: A Biologist in Gorongoza</li> <li>● Food Chains and Webs Activities</li> <li>● Fishadvisory online – EPA.gov</li> <li>● Carbon Cycle (youtube)</li> <li>● Notes/Worksheets – Materials Cycle (Carbon, Oxygen, Nitrogen)</li> <li>● Amoeba Sisters Video</li> <li>● Water Cycle (youtube)</li> <li>● Ecological Succession graphs</li> <li>● Kahoot</li> </ul> |  | <p><a href="https://www.britannica.com/science/ecological-succession">https://www.britannica.com/science/ecological-succession</a></p> <p><a href="https://holdershappening.weebly.com/uploads/1/2/1/2/12126046/studentreferencesheet_successionstations_002_.pdf">https://holdershappening.weebly.com/uploads/1/2/1/2/12126046/studentreferencesheet_successionstations_002_.pdf</a></p> <p><a href="https://roaringearth/canine-distemper-causes-zombie-like-behavior/">https://roaringearth/canine-distemper-causes-zombie-like-behavior/</a></p> <p><a href="https://roaringearth/climate-change-is-making-these-arctic-animals-smaller/">https://roaringearth/climate-change-is-making-these-arctic-animals-smaller/</a></p> <p><a href="https://www.legendslearning.com/learning-objectives/food-webs-in-an-ecosystem/">https://www.legendslearning.com/learning-objectives/food-webs-in-an-ecosystem/</a></p> <p><a href="https://sites.google.com/view/ecologymhs">https://sites.google.com/view/ecologymhs</a></p> |  |  |
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| <p><b>Human Ecology</b></p> | <p>1. How do humans interact with their environment and what are the effects of those interactions?</p> <p>2. How is the human footprint measured in the ecosystem?</p> <p>3. What are some ways to mitigate the damage humans have done in the environment</p> <p><b>Vocabulary</b></p> <ul style="list-style-type: none"> <li>● Human Footprint</li> <li>● Acid Rain</li> <li>● pH Scale</li> <li>● Global Climate Change</li> <li>● Ozone Hole</li> <li>● Invasive/non-indigenous/alien</li> </ul> | <ul style="list-style-type: none"> <li>● Human Footprint (youtube)/Worksheet</li> <li>● Acid Rain Webquest (epa.gov)</li> <li>● Kahoot</li> <li>● What ever happened to Acid Rain? (youtube/worksheet)</li> <li>● Articles: Causes/Effects</li> <li>● A Last Warning on Global Warming</li> <li>● Is Global Warming Drowning Africa</li> <li>● Ozone Hole power point</li> <li>● Scientific American Frontiers – Alan Alda New Diseases Cause Havoc</li> </ul> | <ul style="list-style-type: none"> <li>● Lab: Microscope</li> <li>● Lab: Measuring Cells</li> <li>● Lab: Plant Cell</li> <li>● Lab: Animal Cell</li> <li>● Presentations on Climate Change</li> <li>● Quizzes</li> <li>● Exams</li> </ul> | <p><a href="https://ozonewatch.gsfc.nasa.gov/">https://ozonewatch.gsfc.nasa.gov/</a></p> <p><a href="https://www.gapminder.org/tools/#\$chart-type=bubbles">https://www.gapminder.org/tools/#\$chart-type=bubbles</a></p> <p><a href="http://populationeducation.org/sites/default/files/resource_files/j_curve_graph.pdf">http://populationeducation.org/sites/default/files/resource_files/j_curve_graph.pdf</a></p> <p><a href="https://www.youtube.com/watch?v=-ASgjeVs8Kc">https://www.youtube.com/watch?v=-ASgjeVs8Kc</a></p> <p><a href="https://www.youtube.com/watch?v=eDOwTXobJ3k">https://www.youtube.com/watch?v=eDOwTXobJ3k</a></p> <p><a href="https://www.cbsnews.com/news/siberia-pleistocene-park-bringing-back-pieces-of-the-ice-age-to-combat-climate-change-60-minutes-2020-02-02/">https://www.cbsnews.com/news/siberia-pleistocene-park-bringing-back-pieces-of-the-ice-age-to-combat-climate-change-60-minutes-2020-02-02/</a></p> <p><a href="https://roaringearth/caterpillars-">https://roaringearth/caterpillars-</a></p> | <p>3 Weeks</p> | <p><u>Key Idea 7</u></p> <p><u>HS-LS-2-7</u></p> |
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|                           |   |  |  | <a href="#">could-be-the-solution/</a><br><br><a href="https://roaring.earth/floating-pile-garbage-caribbean-shows-devastating-effects-plastic-pollution/">https://roaring.earth/floating-pile-garbage-caribbean-shows-devastating-effects-plastic-pollution/</a><br><br><a href="https://www.scientificamerican.com/article/destroyed-habitat-creates-the-perfect-conditions-for-coronavirus-to-emerge/">https://www.scientificamerican.com/article/destroyed-habitat-creates-the-perfect-conditions-for-coronavirus-to-emerge/</a> |         |            |
| <b>Cells to Organisms</b> | <ol style="list-style-type: none"> <li>How do cells contribute to the function of living organisms?</li> <li>How are single celled organisms and multicellular organisms unified in their ability to maintain homeostasis?</li> </ol> <p><b>Vocabulary</b></p> <ul style="list-style-type: none"> <li>Cells/Organelles</li> </ul> | <ul style="list-style-type: none"> <li>Virtual trip through the cell</li> <li>Memory game – cells and organelles</li> <li>Drawing Plant/Animal Cell</li> <li>Learn.genetics.utah.edu – Cell scale/size</li> <li>Wacky history of the Cell Theory (youtube)/worksheet</li> <li>edTed video – Cells vs. Virus A battle for health</li> </ul> | <ul style="list-style-type: none"> <li>Lab: Cells Alive</li> <li>Lab: Tissue Drawing</li> <li>Lab: Acids and Bases</li> <li>Lab: Photosynthesis (virtual)</li> <li>Lab: Stomate</li> <li>Quizzes</li> <li>Exams</li> </ul> | <a href="https://mfbc.us/m/qepw92">https://mfbc.us/m/qepw92</a><br><br><a href="https://www.cnn.com/2020/01/13/us/living-robot-stem-cells-intl-hnk-scli-scni/index.html">https://www.cnn.com/2020/01/13/us/living-robot-stem-cells-intl-hnk-scli-scni/index.html</a><br><br><a href="https://www.youtube.com/watch?v=4OpBylwH9DU">https://www.youtube.com/watch?v=4OpBylwH9DU</a><br><br><a href="https://www.youtube.com/watch">https://www.youtube.com/watch</a>   | 5 weeks | Key Idea 1 |

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|                     | <ul style="list-style-type: none"> <li>● Organism</li> <li>● Unicellular</li> <li>● Tissue</li> <li>● Organ</li> <li>● Organ Systems</li> <li>● Virus</li> <li>● Life Characteristics</li> <li>● Binomial Nomenclature</li> </ul> | <ul style="list-style-type: none"> <li>● Notes – Characteristics of life</li> <li>● Exploratorium Microscope Imaging Station</li> <li>● Is Sammy Alive? Activity</li> <li>● Classification System</li> <li>● Amoeba Sisters Video – plants/classification</li> <li>● (youtube) Liger Video</li> </ul> |   | <a href="https://www.youtube.com/watch?v=ORB866QSGv8">?v=ORB866QSGv8</a><br><br><a href="https://www.youtube.com/watch?v=zK7Ckmxxqds">https://www.youtube.com/watch?v=zK7Ckmxxqds</a><br><br><a href="https://www.youtube.com/watch?v=MUWUHf-rzk5">https://www.youtube.com/watch?v=MUWUHf-rzk5</a><br><br><a href="https://www.youtube.com/watch?v=8HgW86TwF_o">https://www.youtube.com/watch?v=8HgW86TwF_o</a><br><br><a href="https://roaringearth.com/bird-eating-spiders-discovered/">https://roaringearth.com/bird-eating-spiders-discovered/</a><br><br><a href="https://roaringearth.com/coywolf-trailcam/">https://roaringearth.com/coywolf-trailcam/</a> |           |   |
| <b>Biochemistry</b> | <ol style="list-style-type: none"> <li>1. How do the building blocks of life create molecules which sustain homeostasis?</li> <li>2. How does a person's life style choices affect the</li> </ol>                                 | <ul style="list-style-type: none"> <li>● Notes/ppt</li> <li>● Amoeba Sisters Video – biomolecules</li> <li>● Concept Map</li> <li>● Amoeba Sisters video – properties of water</li> <li>● JohnKirk.com – water molecule</li> </ul>  | <ul style="list-style-type: none"> <li>● Lab: Calculating Calories</li> <li>● Lab: NYS Osmosis and Diffusion</li> <li>● Packet: All about Enzymes</li> <li>● Quizzes</li> <li>● Exam</li> </ul> | <a href="https://www.youtube.com/watch?v=iLn1KaFMJj8">https://www.youtube.com/watch?v=iLn1KaFMJj8</a><br><br><a href="https://www.youtube.com/watch?v=qjt6TLWZzR4">https://www.youtube.com/watch?v=qjt6TLWZzR4</a><br><br><a href="https://www.youtube.com/watch?v=f8FAJXPBdOg">https://www.youtube.com/watch?v=f8FAJXPBdOg</a>   | 2.5 weeks | <u>Key Idea 1</u><br><br><u>HS-LS-1-6</u><br><br><u>HS-LS-1-7</u> |

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|  | <p>macromolecules?<br/>3. How do organic and inorganic molecules work together to maintain homeostasis?</p> <p><b>Vocabulary</b></p> <ul style="list-style-type: none"> <li>● Macromolecules</li> <li>● Carbohydrates (glucose)</li> <li>● Protein (amino acids)</li> <li>● Lipids (fatty acids and glycerol)</li> <li>● DNA (nucleotide)</li> <li>● Organic</li> <li>● Inorganic</li> <li>● Homeostasis</li> <li>● Enzymes</li> <li>● Properties</li> </ul> |  |  | <p><a href="https://www.youtube.com/watch?v=epUDa03bTHY">https://www.youtube.com/watch?v=epUDa03bTHY</a></p> <p><a href="https://www.youtube.com/watch?v=YO244P1e9QM">https://www.youtube.com/watch?v=YO244P1e9QM</a></p> <p><a href="https://www.youtube.com/watch?v=ZMTegZLXBSQ">https://www.youtube.com/watch?v=ZMTegZLXBSQ</a></p> <p><a href="https://www.youtube.com/watch?v=YO244P1e9QM">https://www.youtube.com/watch?v=YO244P1e9QM</a></p> <p><a href="https://www.youtube.com/watch?v=ZMTegZLXBSQ">https://www.youtube.com/watch?v=ZMTegZLXBSQ</a></p> <p><a href="https://www.youtube.com/watch?v=ggVFkRn8f10">https://www.youtube.com/watch?v=ggVFkRn8f10</a></p> <p><a href="https://www.ted.com/talks/emma_bryce_what_is_a_calorie/transcript?language=en">https://www.ted.com/talks/emma_bryce_what_is_a_calorie/transcript?language=en</a></p> |  |  |
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|                                     |  |  |   | <a href="https://www.youtube.com/watch?v=ASLUY2U1M-8">https://www.youtube.com/watch?v=ASLUY2U1M-8</a><br><br><a href="https://pbslm-contrib.s3.amazonaws.com/WGBH/arct15/SimBucket/Simulations/watersimulation/content/index.html">https://pbslm-contrib.s3.amazonaws.com/WGBH/arct15/SimBucket/Simulations/watersimulation/content/index.html</a><br><br><a href="https://www.youtube.com/watch?v=3jwAGWky98c">https://www.youtube.com/watch?v=3jwAGWky98c</a><br><br><a href="https://www.pbs.org/wgbh/nova/video/the-truth-about-fat/">https://www.pbs.org/wgbh/nova/video/the-truth-about-fat/</a> |         |   |
| <b>Maintenance of Living Things</b> | <ol style="list-style-type: none"> <li>1. What mechanisms do cells use to regulate what enters and leaves the cell?</li> <li>2. What common structures do all organisms have to carry out life functions?</li> </ol> | <ul style="list-style-type: none"> <li>• Notes/ppt</li> <li>• 3-D Model of Leaf Structure</li> <li>• Packet – 3-D view of leaf structure</li> <li>• Photosynthesis worksheet</li> <li>• Amoeba Sisters video – cell membrane, Osmosis</li> </ul> | <ul style="list-style-type: none"> <li>• Lab: Leaf Structure</li> <li>• The Biology Place virtual lab</li> <li>• Lab: Egg Experiment</li> <li>• Lab: Effects of Training</li> <li>• Lab: Perceptions &amp; Illusions</li> <li>• Quizzes</li> <li>• Exams</li> </ul> | <a href="https://ny.pbslearningmedia.org/resource/tdc02.sci.life.reg.bodycontrol/body-control-center/#.XjrU4WhKg2w">https://ny.pbslearningmedia.org/resource/tdc02.sci.life.reg.bodycontrol/body-control-center/#.XjrU4WhKg2w</a><br><br><a href="https://www.pbs.org/wgbh/nova/denali/core.html">https://www.pbs.org/wgbh/nova/denali/core.html</a>   | 5 weeks | <u>Key idea 5</u><br><br><u>HS-LS-1-3</u><br><br><u>HS-LS-1-5</u> |

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|  | <p><b>Vocabulary</b></p> <ul style="list-style-type: none"> <li>● Autotrophic Nutrition</li> <li>● Electromagnetic Spectrum</li> <li>● Diffusion and Osmosis</li> <li>● Concentration Gradient</li> <li>● Hypo/Hyper/Iso tonic Solutions</li> <li>● Active/Passive Transport</li> <li>● Cellular Respiration</li> <li>● ATP Molecule</li> <li>● Solute/Solvent</li> <li>● Aerobic/Aerobic Respiration</li> <li>● Fermentation</li> <li>● Regulation</li> <li>● Synaptic Gap</li> <li>● Endocrine</li> </ul> | <ul style="list-style-type: none"> <li>● Research for Earthworm, Amoeba, Paramecium,</li> </ul> |  | <p><a href="https://pbskids.org/nova/denali/body.html">https://pbskids.org/nova/denali/body.html</a></p> <p><a href="https://drive.google.com/open?id=1B5z4o337QRpMDoc6efFsxWUvkNomLJ5&amp;authuser=0">https://drive.google.com/open?id=1B5z4o337QRpMDoc6efFsxWUvkNomLJ5&amp;authuser=0</a></p> <p><a href="https://drive.google.com/open?id=19ltSpIpTAcBG9xi3k3rYx3E_CGJwBkD&amp;authuser=0">https://drive.google.com/open?id=19ltSpIpTAcBG9xi3k3rYx3E_CGJwBkD&amp;authuser=0</a></p> <p><a href="https://www.youtube.com/watch?v=KrUAWq_K3h8">https://www.youtube.com/watch?v=KrUAWq_K3h8</a></p> <p><a href="https://www.youtube.com/watch?v=WIKp2sDUVMA">https://www.youtube.com/watch?v=WIKp2sDUVMA</a></p> <p><a href="https://www.youtube.com/watch?v=kQdRVq0b9Bk">https://www.youtube.com/watch?v=kQdRVq0b9Bk</a></p> <p><a href="https://www.youtube.com/watch?v=io731XY8fH8">https://www.youtube.com/watch?v=io731XY8fH8</a></p> |  |  |
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| <b>Human Body</b> | <ol style="list-style-type: none"> <li>How do the various body systems work together to maintain homeostasis?</li> <li>What happens when body systems fail?</li> </ol> <p><b>Vocabulary</b></p> <ul style="list-style-type: none"> <li>Digestive System</li> <li>Respiratory System</li> <li>Excretory System</li> <li>Locomotion</li> <li>Hormones</li> <li>Feedback loop</li> <li>Immune System</li> <li>Antibody/Antigen</li> <li>Temporary</li> <li>Permanent</li> <li>Vaccine</li> <li>Active/Passive</li> <li>Allergies</li> </ul> | <ul style="list-style-type: none"> <li>Notes/ppt</li> <li>Amoeba Sisters video of body systems</li> <li>Heart Diagram – color/follow path of blood</li> <li>Virtual Blood Typing Game</li> <li>NOVA videos – vaccines</li> <li>Ted ED – Why do people have seasonal allergies?</li> </ul> | <ul style="list-style-type: none"> <li>Lab: Earthworm dissection</li> <li>Lab: Frog Dissection</li> <li>Lab: Heart Dissection</li> <li>Lab: Blood typing (Wards)</li> </ul> | <p><a href="https://www.youtube.com/watch?v=Vi1JK6IYVt8">https://www.youtube.com/watch?v=Vi1JK6IYVt8</a></p> <p><a href="https://www.youtube.com/watch?v=QhiVnFvshZg">https://www.youtube.com/watch?v=QhiVnFvshZg</a></p> <p><a href="https://prezi.com/8cq0hbthncps/the-heart-and-blood-vessels/">https://prezi.com/8cq0hbthncps/the-heart-and-blood-vessels/</a></p> <p><a href="https://www.youtube.com/watch?v=ruM4Xhx32U">https://www.youtube.com/watch?v=ruM4Xhx32U</a></p> <p><a href="https://askabiologist.asu.edu/sites/default/files/resources/coloring_pages/pdf/AAB_human_heart_coloring_worksheet.pdf">https://askabiologist.asu.edu/sites/default/files/resources/coloring_pages/pdf/AAB_human_heart_coloring_worksheet.pdf</a></p> <p><a href="https://www.youtube.com/watch?v=3_PYnWVoUzM">https://www.youtube.com/watch?v=3_PYnWVoUzM</a></p> <p><a href="https://www.biogycorner.com/worksheets/heart_internal.html">https://www.biogycorner.com/worksheets/heart_internal.html</a></p> | 4 Weeks | Key idea 6 |
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| <b>Reproduction/Development</b> | <ol style="list-style-type: none"> <li>1. What mechanisms to organisms use to grow, develop and reproduce?</li> <li>2. How is cellular reproduction related to disease?</li> </ol> | <ul style="list-style-type: none"> <li>• Notes/ppt</li> <li>• Amoeba Sisters – Mitosis</li> <li>• (youtube) – hydra budding</li> <li>• Graph – Menstrual Cycle</li> <li>• (youtube) – giving birth</li> </ul> | <ul style="list-style-type: none"> <li>• Lab: NYS Biodiversity Lab</li> <li>• Quizzes</li> <li>• Exam</li> </ul> | <a href="https://biomanbio.com/HTML5GamesandLabs/Genegames/snurflemiosishtml5page.html">https://biomanbio.com/HTML5GamesandLabs/Genegames/snurflemiosishtml5page.html</a><br><br><a href="https://www.pbs.org/wgbh/nova/evolution/guess-embryo.html">https://www.pbs.org/wgbh/nova/evolution/guess-embryo.html</a>   | 2 Weeks | <p><u>Key idea 4</u></p> <p><u>HS-LS-1-4</u></p> <p><u>HS-LS-3-1</u></p> <p><u>HS-LS-3-2</u></p> <p><u>HS-LS-3-3</u></p> <p><u>HS-LS-1-8</u></p> |

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|                 | <p><b>Vocabulary:</b></p> <ul style="list-style-type: none"> <li>• Mitosis Phases</li> <li>• Regeneration</li> <li>• Cloning</li> <li>• Binary Fission</li> <li>• Meiosis</li> <li>• Cancer</li> <li>• Zygote Development</li> <li>• Egg Development</li> <li>• Reproduction</li> <li>• Menstrual Cycle</li> </ul>   | <ul style="list-style-type: none"> <li>• Drawing of Cells undergoing Mitosis/Meiosis</li> <li>• Oreo Cookie Activity</li> <li>• PBS Series - Why Sex?</li> </ul>  |  | <p><a href="https://www.youtube.com/watch?v=l1qvUPYDnOY">https://www.youtube.com/watch?v=l1qvUPYDnOY</a></p> <p><a href="https://www.youtube.com/watch?v=LKvez9duEHQ">https://www.youtube.com/watch?v=LKvez9duEHQ</a></p>   |         |  |
| <b>Genetics</b> | <ol style="list-style-type: none"> <li>1. How are organisms from one generation related to previous generations?</li> <li>2. How do living organisms pass traits from one generation to the next?</li> <li>3. How can individuals of the same species have different characteristics?</li> </ol> <p><b>Vocabulary:</b></p> <ul style="list-style-type: none"> <li>• DNA</li> </ul> | <ul style="list-style-type: none"> <li>• Notes/ppt</li> <li>• Genetic Science Learning Center Activities</li> <li>• Amoeba Sisters video – protein synthesis</li> <li>• Protein Synthesis Worksheet</li> <li>• Mutations Worksheet</li> <li>• Amoeba Sisters video – Mutations</li> <li>• Learn.genetics.uta.edu</li> </ul> | <ul style="list-style-type: none"> <li>• Lab: NYS Biodiversity</li> <li>• Quizzes</li> <li>• Exam</li> </ul> | <p><a href="https://drive.google.com/open?id=1xkoIGfSN5_xyBQQXsL7RNgpFVtJo5wem&amp;authuser=0">https://drive.google.com/open?id=1xkoIGfSN5_xyBQQXsL7RNgpFVtJo5wem&amp;authuser=0</a></p> <p><a href="https://www.slideshare.net/jaywan/honors-protein-synthesis">https://www.slideshare.net/jaywan/honors-protein-synthesis</a></p> <p><a href="https://www.youtube.com/watch?v=oefAI2x2CQM">https://www.youtube.com/watch?v=oefAI2x2CQM</a></p> <p><a href="https://www.youtube.com/watch?v=5MQdXjRPHmQ">https://www.youtube.com/watch?v=5MQdXjRPHmQ</a></p> | 2 Weeks | <p><u>Key idea 3</u></p> <p><u>HS-LS-1-1</u></p> <p><u>HS-LS-1-2</u></p> |

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|  | <ul style="list-style-type: none"> <li>● Protein Synthesis</li> <li>● Mutations</li> <li>● Gel Electrophoresis</li> <li>● Gene Splicing</li> <li>● Genetic Engineering</li> <li>● Cloning</li> </ul> |  |  | <p><a href="https://www.youtube.com/watch?v=5MfSYnItYvg">https://www.youtube.com/watch?v=5MfSYnItYvg</a></p> <p><a href="https://www.youtube.com/watch?v=aVgwr0QpYNE">https://www.youtube.com/watch?v=aVgwr0QpYNE</a></p> <p><a href="https://www.youtube.com/watch?v=Uu7Db5On00U">https://www.youtube.com/watch?v=Uu7Db5On00U</a></p> <p><a href="https://www.youtube.com/watch?v=tjXpiWKMyA">https://www.youtube.com/watch?v=tjXpiWKMyA</a></p> <p><a href="https://www.youtube.com/watch?v=kp0esidDr-c">https://www.youtube.com/watch?v=kp0esidDr-c</a></p> <p><a href="https://www.youtube.com/watch?v=RbZOT0TlwjE">https://www.youtube.com/watch?v=RbZOT0TlwjE</a></p> <p><a href="https://www.youtube.com/watch?v=MkUgkDLp2iE">https://www.youtube.com/watch?v=MkUgkDLp2iE</a></p> <p><a href="https://prezi.com/o3s5_tkteudu/rna-and-protein-synthesis/">https://prezi.com/o3s5_tkteudu/rna-and-protein-synthesis/</a></p> |  |  |
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| <b>Evolution</b> | <ol style="list-style-type: none"> <li>1. What evidence shows that different species are related?</li> <li>2. How does genetic variation among organisms in a species affect survival and reproduction?</li> <li>3. How does the environment influence genetic traits in populations over multiple generations?</li> </ol> <p><b>Vocabulary:</b></p> <ul style="list-style-type: none"> <li>• Variation</li> <li>• Inheritance</li> <li>• Species</li> <li>• Theory</li> <li>• Fossil</li> </ul> | <ul style="list-style-type: none"> <li>• Notes/ppt</li> <li>• The Fossil Record Activity</li> <li>• HHMI – Origin of Species: The Beak of the Finch</li> <li>• HHMI – The Making of a Theory</li> <li>• PBS – What are we? Origins of Life</li> <li>• HHMI – Sickle Cell and Malaria</li> </ul> | <ul style="list-style-type: none"> <li>• Lab: NYS Beaks of Finches</li> <li>• Quizzes</li> <li>• Exam</li> </ul> | <a href="https://roaringearth/african-elephants-evolving-to-lose-tusks-thanks-to-poachers/">https://roaringearth/african-elephants-evolving-to-lose-tusks-thanks-to-poachers/</a><br><br><a href="https://roaringearth/all-female-lizard-species/">https://roaringearth/all-female-lizard-species/</a><br><br><a href="https://roaringearth/mammals-cant-evolve-quickly-enough-to-survive-humanity/">https://roaringearth/mammals-cant-evolve-quickly-enough-to-survive-humanity/</a><br><br><a href="https://read.activelylearn.com/#teacher/catalog/units-hs-biology/?ui=16">https://read.activelylearn.com/#teacher/catalog/units-hs-biology/?ui=16</a><br><br><a href="https://www.youtube.com/watch?v=dyiZaHIRM6w">https://www.youtube.com/watch?v=dyiZaHIRM6w</a> | 2 Weeks | <u>Key idea 3</u><br><br><u>HS-LS-4-1</u><br><br><u>HS-LS-4-2</u><br><br><u>HS-LS-4-3</u><br><br><u>HS-LS-4-4</u><br><br><u>HS-LS-4-5</u> |

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| <b>LABS</b> |  | <b>Lab policy and Procedures</b> |  | <a href="https://www.biointeractive.org">https://www.biointeractive.org</a>   |  |  |

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|  |  | <p>Contact lens Contract<br/>Safety Contract</p> <p>Lab Safety</p> <p>Checks Lab</p> <p>Graphing Lab</p> <p>Metric Measurements</p> <p>Classification</p> <p>NYS Making Connections</p> <p>Use of the Microscope</p> <p>Measuring Cells</p> <p>Biomes</p> <p>Calculating Populations</p> <p>Acid Rain Webquest</p> <p>Ozone Investigation</p> <p>Plant Cell Investigation</p> <p>Animal Cell Investigation</p> <p>Microscopic Organisms<br/>(Pond Water)</p> <p>Tissue Lab</p> <p>Stomate Lab</p> |  | <p><a href="#">/classroom-resources/beaks-tools-selective-advantage-changing-environments</a></p> <p><a href="https://www.nytimes.com/column/whats-going-on-in-this-graph?auth=link-dismiss-google1tap">https://www.nytimes.com/column/whats-going-on-in-this-graph?auth=link-dismiss-google1tap</a></p> <p><a href="https://www.youtube.com/watch?v=666WdKfcWw8">https://www.youtube.com/watch?v=666WdKfcWw8</a></p> <p><a href="https://www.youtube.com/watch?v=S3f_8Cslev0">https://www.youtube.com/watch?v=S3f_8Cslev0</a></p> <p><a href="http://www.mbgnet.net/">http://www.mbgnet.net/</a></p> <p><a href="https://drive.google.com/open?id=1EaUWF266e5aldGKXEK21I2BOYGd31Oka&amp;authuser=0">https://drive.google.com/open?id=1EaUWF266e5aldGKXEK21I2BOYGd31Oka&amp;authuser=0</a></p> |  |
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|  |  | <b>Acids and Bases</b>                    |  |  |  |  |
|  |  | <b>NYS Osmosis and Diffusion</b>          |  |  |  |  |
|  |  | <b>NYS Relationships and Biodiversity</b> |  |  |  |  |
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