

HIGH SCHOOL NGSS

STANDARD	UNIT	TOPICS	TIME (DAYS)
HS-LS1	FROM MOLECULES TO ORGANISMS	-1 Protein synthesis	5-6
		-2 Cells, tissue (organization)	3-4
		-3 Homeostasis and cell transport	6-7
		-4 Mitosis and Differentiation	5-7
		-5 Photosynthesis- Light energy to chemical energy (inputs, outputs, transfer of energy)	6-8
		-6 Biochemistry- C-H-O (enzymes can fit here)	4-6
		-7 Cellular Respiration- inputs, outputs, energy transfer in bonds	5-7

Testing and Review Days Not Included

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STANDARD	UNIT	TOPICS	TIME (DAYS)
HS-LS2 Testing and Review Days Not Included This pacing guide does not account for the days you spend reviewing or the actual days that students are tested on the materials, as the number of days and number of tests varies among classrooms.	ECOSYSTEMS, ENERGY, DYNAMICS	-1. Carrying Capacity	5-6
		-2. Factors affecting biodiversity among varying ecological levels	3
		-3. Aerobic Anaerobic respiration- cycling of matter, energy flow	3-4
		-4. Biomass Energy Flow	6-7
		-5. Biogeochemical cycles Relationship to photosynthesis and cellular respiration	5-6
		-6. Interactions among ecosystems (stability vs. what can change an ecosystem)	5-6
		-7. Human Impact	3-4
		-8. Behavior and Success Population Dynamics	4-5

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STANDARD	UNIT	TOPICS	TIME (DAYS)
HS-LS3	INHERITANCE AND VARIATION OF TRAITS	-1. DNA & Heredity- clarify the role of DNA in heredity	8-10
		-2. Genetic variation (DNA replication, mutations, meiosis)	10-15
		-3. Distribution of traits- statistics and probability (Punnett squares, etc.) and environmental factors	9-12

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STANDARD	UNIT	TOPICS	TIME (DAYS)
HS-LS4	EVOLUTION AND NATURAL SELECTION	-1. Evidence of evolution- common ancestry	5-7
		-2. Factors that promote evolution	6-7
		-3. Distribution of traits Types of natural selection	4-5
		-4. Environmental influences affect gene frequency leading to adaptations among species	5-6
		-5. Environmental influences on speciation or extinction or natural selection	5-6
		-6. Solutions to adverse affects of human activity on biodiversity	5-6

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