

Biology Curriculum Pacing Guide, Semester 1

Unit	Lesson Breakdown	Standards		Number of Days	Dates
		Essential	Supporting		
Quarter 1 (44 Days)					Aug 10 – Oct 12
Introduction to Science SCALE N.1.1	Building Life Skills Through Science Safety CER (Claims, Evidence, Reasoning) & Reading Strategies	N.1.1 – DOK 3		5	Aug 10- Aug 16
Unit 1: Biochemistry SCALE L.18.12 SCALE L.18.1	Water – 3 days Macromolecules – 6 days	L.18.12 – DOK 2 L.18.1 – DOK 2	L.18.11 – DOK 2 L.18.2 – DOK 2 L.18.3 – DOK 2 L.18.4 – DOK 2 P.8.7 – DOK 2	12	Aug 17 –Sept 1/5 (Specific dates depend on the date the readiness is given)
*One day in this quarter is reserved for the Readiness Assessment.				1	TBD by teacher/PLC
Unit 2: Cells SCALE L.14.1 SCALE L.14.3 SCALE L.14.4 SCALE L.14.5	Cell Theory, Theory v Law & Microscopes – 2 days Cell Structure & Function – 7 days	L.14.1 – DOK 2 L.14.3 – DOK 2	L.14.2 – DOK 2 L.14.4 – DOK 2 L.14.5 – DOK 3	12	Sept 5/6 – Sept 21
Unit 3: Cellular Energy SCALE L.18.9	Photosynthesis – 3 days Cellular Respiration – 3 days Interrelationship – 1 day	L.18.9 – DOK 2	L.18.7 – DOK 2 L.18.8 – DOK 2 L.18.10 – DOK 3	10	Sept 25 – Oct 6
Unit 4: Plant Physiology SCALE L.14.7	Transpiration & structures involved – 2 days Reproduction & structures involved – 2 days	L.14.7 – DOK 2		4	Oct 9 – Oct 12
Quarter 2 (39 Days)					Oct 16 – Dec 15
Unit 5: Cell Division & Human Reproduction SCALE L.16.17 SCALE L.16.13	Cell Cycle – 2 days Mitosis – 3 days Meiosis – 4 days Mitosis vs. Meiosis – 3 days Male reproduction – 1 day Female reproduction – 1 day Fetal Development – 2 days	L.16.17 – DOK 3 L.16.13 – DOK 2	L.16.8 – DOK 2 L.16.14 – DOK 2 L.16.15 – DOK 2 L.16.16 – DOK 2	19	Oct 16 – Nov 9
Unit 6: DNA & Genetics SCALE L.16.1/16.2 SCALE L.16.3 SCALE L.16.4 SCALE L.16.5/L.16.9	Replication – 2 days Protein Synthesis – 3 days Mutations (chromosomal & gene) – 3 days Mendelian – 3 days Non-Mendelian – 5 days	L.16.1 – DOK 3 L.16.3 – DOK 3	L.16.2 – DOK 3 L.16.4 – DOK 3 L.16.5 – DOK 3 L.16.9 – DOK 2	20	Nov 13 – Dec 15

Honors Standards are in red

Biology Curriculum Pacing Guide, Semester 2

Unit	Lesson Breakdown	Standards		Number of Days	Dates
		Essential	Supporting		
Quarter 3 (45 Days)					Jan 3 – Mar 7
Unit 7: Biotechnology SCALE L.16.10	Biotechnology – 4 days	L.16.10 – DOK 3	L.16.12 – DOK 2	5	Jan 3 – Jan 11
*Two days in this quarter are reserved for the Semester Assessment.				2	TBD
Unit 8: Origin of Life, Classification, Evolution & Natural Selection SCALE L.15.8 SCALE L.15.6 SCALE L.15.1 SCALE L.15.13	Chemical & Biological Evolution – 2 days History of Classification – 1 day Domains & Kingdoms – 4 days Cladograms & Phylogeny – 3 days Evolution – 6 days Natural Selection – 6 days Other mechanisms of evolutionary change – 3 days	L.15.8 – DOK 2 L.15.6 – DOK 2 L.15.1 – DOK 3 L.15.13 – DOK 2	L.14.5 – DOK 3 L.15.2 – DOK 2 L.15.3 – DOK 2 L.15.4 – DOK 3 L.15.5 – DOK 3 L.15.10 – DOK 2 L.15.14 – DOK 2 L.15.15 – DOK 2	28	Jan 12 – Feb 22
Unit 9: Energy Flow SCALE L.17.9	Food Web – 3 days Trophic level & energy transfer – 3 days Carbon & Water Cycle – 3 days	L.17.9 – DOK 2	E.7.1 – DOK 3 P.10.1 – DOK 2	10	Feb 23 – Mar 7
Quarter 4 (52 days)					Mar 18 – May 29
Unit 10: Populations & Ecosystems SCALE L.17.5	Carrying Capacity (Graphs) – 3 days Population Distribution in Aquatic Systems – 1 day Biodiversity – 1 day Changes in Ecosystems – 1 day	L.17.5 – DOK 3	L.17.2 – DOK 3 L.17.4 – DOK 2 L.17.8 – DOK 3	8	Mar 18 – Apr 1
*Three days are reserved for the Mock Assessment. (Review 1 day and Assess 2 days)				3	TBD
Unit 11: Human Impact on the Environment SCALE L.17.20/L.17.13	Sustainability & Human Action – 1 day Renewable & Nonrenewable Resources – 1 day Policy Monitoring & Parameters – 1 day	L.17.20 – DOK 3	L.17.11 – DOK 3 L.17.13 – DOK 3 L.17.16 – DOK 3	5	Apr 2 – Apr 8
Unit 12: Human Body Systems SCALE L.14.26/L.14.27 SCALE L.14.36 SCALE L.14.52/L.14.6	Brain Structure – 1 day Factors Affecting Blood Flow – 1 days Immune Response – 3 days	L.14.26 – DOK 1 L.14.36 – DOK 2 L.14.52 – DOK 2	L.14.6 – DOK 3 L.14.27 – DOK 1	5	Apr 9 – Apr 15
EOC Review/EOC	Review standards should be based on data acquired through common assessments.			14	Apr 16 – May 3
Biology EOC	EOC (your site will determine the exact date)				TBD
CSI/Dissections/Intro to Chemistry	Content taught during this time is at your discretion but should help students deepen their science knowledge.				TBD

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