

Course Title: Life Science
Content Area: Science

Grade Level: 7

Scope and Sequence						
Unit or Topic	Standards	Length of Time	Key Content	Assessment Tools	Scaffolding Strategies (Interventions, Special Education)	Resources & Materials
Cells & Organelles	3.1.7.A4 3.1.7.A5 3.1.7.A6 3.1.7.A8 3.1.7.B2	5 weeks	 → Characteristics of living things → Types of cells: prokaryotic and eukaryotic → Cell theory → Types of organelles: structure and function → Microscope usage 	Teacher created assessments – homework, labs, quizzes, and tests.	Students are allowed to retest if needed. Assessments are adapted as needed.	All content is teacher created. Materials are posted in Blackboard, Google Classroom, and/or handed out for interactive notebooks.
Cellular Processes	3.1.7.A2 3.1.7.A7	5 weeks	 → Photosynthesis → Cellular Respiration → Cell transport: diffusion, osmosis, endocytosis, exocytosis, and why cells are so small → Mitosis 	Teacher created assessments – homework, labs, quizzes, and tests.	Students are allowed to retest if needed. Assessments are adapted as needed.	All content is teacher created. Materials are posted in Blackboard, Google Classroom, and/or handed out for interactive notebooks.
Classification of Life & Viruses	3.1.7.A1 3.1.7.A3 3.1.7.A9 3.1.7.B2	5 weeks	 → Linnaeus' system of classification → Construct and use dichotomous keys 	Teacher created assessments – homework,	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard, Google Classroom, and/or

			→ Levels of classification: Domain, Kingdom, Phylum, Class, Order, Family, Genus, Species → Characteristics for organisms found in each kingdom including cell type, eating habits, reproductive methods, and more → Viruses and why are they are non-living	labs, quizzes, and tests.	Assessments are adapted as needed.	handed out for interactive notebooks.
Genetics & Heredity	3.1.7.B1 3.1.7.B2	5 weeks	→ Punnett Squares → Mendelian and non- mendelian inheritance	Teacher created assessments – homework, labs, quizzes, and tests.	Students are allowed to retest if needed. Assessments are adapted as needed.	All content is teacher created. Materials are posted in Blackboard, Google Classroom, and/or handed out for interactive notebooks.
DNA	3.1.7.B4 3.1.7.B5	5 weeks	 → The structure of DNA → Meiosis → Pedigrees → Spective Breeding, hybridization and genetic engineering 	Teacher created assessments – homework, labs, quizzes, and tests.	Students are allowed to retest if needed. Assessments are adapted as needed.	All content is teacher created. Materials are posted in Blackboard, Google Classroom, and/or handed out for interactive notebooks.
Evolution, Natural Selection & Adaptations	3.1.7.B6 3.1.7.C1 3.1.7.C2 3.1.7.C3 3.1.7.C4	5 weeks	 → Theory of evolution → Mutation and adaptation → Charles Darwin and his theory of evolution by natural selection → The Industrial Revolution → Evidence of evolution 	Teacher created assessments – homework, labs, quizzes, and tests.	Students are allowed to retest if needed. Assessments are adapted as needed.	All content is teacher created. Materials are posted in Blackboard, Google Classroom, and/or handed out for

			→ Types of camouflage			interactive
			→ Radioactive dating			notebooks.
Cells &	3.1.7.A4	5 weeks	→ Characteristics of living	Teacher	Students are	All content is teacher
Organelles	3.1.7.A5		things	created	allowed to retest if	created. Materials
	3.1.7.A6		→ Types of cells: prokaryotic	assessments –	needed.	are posted in
	3.1.7.A8		and eukaryotic	homework,	Assessments are	Blackboard, Google
	3.1.7.B2		→ Cell theory	labs, quizzes,	adapted as	Classroom, and/or
			→ Types of organelles:	and tests.	needed.	handed out for
			structure and function			interactive
			→ Microscope usage			notebooks.
Cellular	3.1.7.A2	5 weeks	→ Photosynthesis	Teacher	Students are	All content is teacher
Processes	3.1.7.A7		→ Cellular Respiration	created	allowed to retest if	created. Materials
			→ Cell transport: diffusion,	assessments –	needed.	are posted in
			osmosis, endocytosis,	homework,	Assessments are	Blackboard, Google
			exocytosis, and why cells are	labs, quizzes,	adapted as	Classroom, and/or
			so small	and tests.	needed.	handed out for
			→ Mitosis			interactive
						notebooks.