



Girard USD 248 Curriculum Alignment



Unit Title *(Include month or date indicators are covered.)*

Life Science - Q1 - Life's Structure and Function

Unit Description

• problem solving & critical thinking • scientific methods & experimentation • SI units & measurement • classification of living things • structure of matter (atoms, molecules, compounds) • structure & function of cells (cell parts, cell processes, cell reproduction) • levels of organization (cells, tissues, organs, organ systems) • genetics & basis of heredity

Unit Indicators

Order	Indicator	Priority
1	1.1K2 designs investigations, including developing questions, gathering and analyzing data, and designing and conducting research. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	1.1K3 actively engages in using technological tools and mathematics in their own scientific investigations. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
3	3.1K1 understands cells are composed of a variety of specialized structures that carry out specific functions. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
4	3.1K2 understands cell functions involve specific chemical reactions. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
5	3.1K3 understands cells function and replicate as a result of information stored in (DNA) and (RNA) molecules. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
6	3.1K4 understands some plant cells contain chloroplasts which are the sites of photosynthesis. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
7	3.2K1 understands living organisms contain DNA or RNA as their genetic material which provides the instructions that specify the characteristics of organisms. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
7	2a.1K1 understands atoms the fundamental organizational unit of matter, are composed of subatomic particles. Chemists are primarily interested in the protons, electrons, and neutrons found in the atom.	(Mastery)

		Add Lesson Plan...	Upload Indicator Support Documents...	
8	2a.2K2	understands the periodic table lists elements according to increasing atomic number. This table organizes physical and chemical trends by groups, periods, and sub-categories.		(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...	
8	3.2K2	understands organisms usually have a characteristic number of chromosomes; one pair of these may determine the sex of individuals.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
9	3.2K3	understands hereditary information is contained in genes, located in the chromosomes of each cell.		(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...	
10	3.2K4	understands gametes carry the genetic information to the next generation.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
11	3.5K3	understands food molecules contain biochemical energy, which is then available for cellular respiration.		(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...	
12	3.7K3	understands that living things change following a specific pattern of developmental stages called life cycles.		(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...	
12	7.2K3	understands scientific knowledge consists of hypotheses, inferences, laws, and theories.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
13	3.75	understands taxonomy is the systematic way in which organism are placed into a hierarchical classification system, according to their physical and genetic characteristics and their evolutionary history.		(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...	
Upload Unit Support Documents...				



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Unit Title *(Include month or date indicators are covered.)*

Life Science - Q2 - Adaptations; From Bacteria to Plants

Unit Description

• adaptations over time • biological evolution & biodiversity • interdependence of organisms • bacteria, protists, fungi • plants, plant reproduction, plant processes

Unit Indicators

Order	Indicator	Priority
1	1.1K2 designs investigations, including developing questions, gathering and analyzing data, and designing and conducting research. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	1.1K3 actively engages in using technological tools and mathematics in their own scientific investigations. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
3	3.3K3 understands biological evolution is used to explain the earth's present day biodiversity: the number, variety and variability of organisms. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
4	3.3K4 understands organisms vary widely within and between populations. Variation allows for natural selection to occur. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
5	3.1K4 understands some plant cells contain chloroplasts which are the sites of photosynthesis. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
6	3.7K3 understands that living things change following a specific pattern of developmental stages called life cycles. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)

[Upload Unit Support Documents...](#)



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Unit Title *(Include month or date indicators are covered.)*

Life Science - Q3 - Animal Diversity

Unit Description

• introduction to animals • mollusks, worms, arthropods, echinoderms • fish, amphibians, reptiles • birds, mammals • animal behavior

Unit Indicators

Order	Indicator	Priority
1	3.6K1 understands animals have behavioral responses to internal changes and to external stimuli. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	3.6K2 understands most multicellular animals have nervous systems that underlie behavior. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
3	3.7K3 understands that living things change following a specific pattern of developmental stages called life cycles. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
4	3.7K4 understands that in complex organisms there is a division of labor into specific body systems, i.e. respiration, digestion, nervous, endocrine, excretion, circulatory, reproductive, immune, skeletal and muscle. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
5	3.75 understands taxonomy is the systematic way in which organism are placed into a hierarchical classification system, according to their physical and genetic characteristics and their evolutionary history. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)

[Upload Unit Support Documents...](#)



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Unit Title *(Include month or date indicators are covered.)*

Life Science - Q4 - Human Body Systems; Ecology

Unit Description

• structure & movement • nutrients & digestion • circulation • respiration & excretion • control & coordination • regulation & reproduction • immunity & disease • interactions of life • the nonliving environment • ecosystems • conserving resources

Unit Indicators

Order	Indicator	Priority
1	1.1K3 actively engages in using technological tools and mathematics in their own scientific investigations. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	3.5K3 understands food molecules contain biochemical energy, which is then available for cellular respiration. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
3	3.6K2 understands most multicellular animals have nervous systems that underlie behavior. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
3	5.1K3 understands science advances new technologies. New technologies open new areas for scientific inquiry. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
3	5.1K1 understands technology is the application of scientific knowledge for functional purposes. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
4	3.7K3 understands that living things change following a specific pattern of developmental stages called life cycles. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
5	3.7K4 understands that in complex organisms there is a division of labor into specific body systems, i.e. respiration, digestion, nervous, endocrine, excretion, circulatory, reproductive, immune, skeletal and muscle. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
6	3.75 understands taxonomy is the systematic way in which organism are placed into a hierarchical classification system, according to their physical and genetic characteristics and their evolutionary history. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)

		Add Lesson Plan...	Upload Indicator Support Documents...	
7	6.1K3	understands informed personal choices concerning fitness and health involve an understanding of chemistry and biology.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
8	6.1K4	understands selection of foods and eating patterns determine nutritional balance which affects emotional and physical well-being.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
9	6.5K1	understands progress in science and technology can be affected by social issues and challenges. Science and technology indicate what can happen, not what should happen.		(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...	
Upload Unit Support Documents...				

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