



Girard USD 248 Curriculum Alignment



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

A&P - Q1 - Foundations of Human A&P

Unit Description

• Introduction to Human A&P • Review of cell biology (cytology) • Review of chemistry • Biochemistry • Tissues (histology)

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)
1	7.1K5 understands there are many issues which involve morals, ethics, values or spiritual beliefs that go beyond what science can explain, but for which solid scientific literacy is useful. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
1	6.1K3 understands informed personal choices concerning fitness and health involve an understanding of chemistry and biology. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
1	5.1K1 understands technology is the application of scientific knowledge for functional purposes. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	7.1K6 recognizes society's role in supporting topics of research and determining institutions where research is conducted. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
2	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. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
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	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. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)

		Add Lesson Plan...	Upload Indicator Support Documents...	
4	2a.1K2	understands isotopes are atoms with the same atomic number (same number of protons) but different numbers of neutrons. The nuclei of some atoms are radioactive isotopes that spontaneously decay, releasing radioactive energy.	(Building Blocks)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
5	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...	
6	2a.2K3	understands chemical bonds result when valence electrons are transferred or shared between atoms. Breaking a chemical bond requires energy. Formation of a chemical bond releases energy. Ionic compounds result from atoms transferring electrons. Molecular compounds result from atoms sharing electrons.	(Mastery)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
7	2a.3K1	understands a chemical reaction occurs when one or more substances (reactants) react to form a different chemical substance(s) (products). There are different types of chemical reactions all of which demonstrate the Law of Conservation of Matter and Energy.	(Mastery)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
8	3.1K1	understands cells are composed of a variety of specialized structures that carry out specific functions.	(Mastery)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
9	3.1K2	understands cell functions involve specific chemical reactions.	(Mastery)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
10	3.1K3	understands cells function and replicate as a result of information stored in (DNA) and (RNA) molecules.	(Building Blocks)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
11	3.1K5	understands cells can differentiate thereby enabling complex multicellular organisms to form.	(Building Blocks)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
12	3.2K1	understands living organisms contain DNA or RNA as their genetic material which provides the instructions that specify the characteristics of organisms.	(Mastery)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
13	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...	
14	3.2K3	understands hereditary information is contained in genes, located in	(Mastery)	

		the chromosomes of each cell.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
15	3.2K4	understands gametes carry the genetic information to the next generation.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
16	3.5K3	understands food molecules contain biochemical energy, which is then available for cellular respiration.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
17	3.5K4	understands the structure and function of an organism serve to acquire, transform, transport, release and eliminate the matter and energy used to sustain the organism.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
18	3.6K1	understands animals have behavioral responses to internal changes and to external stimuli.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
19	3.7K2	understands that homeostasis is the dynamic regulation and balance of an organisms internal environment to maintain conditions suitable for survival.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
20	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.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
Upload Unit Support Documents...			

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Girard USD 248 Curriculum Alignment



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

A&P - Q2 - Support & Coordination

Unit Description

• Skeletal System • Muscular System • Nervous System • Endocrine System

Unit Indicators

Order	Indicator	Priority
1	5.1K3 understands science advances new technologies. New technologies open new areas for scientific inquiry. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
1	3.1K1 understands cells are composed of a variety of specialized structures that carry out specific functions. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	3.1K2 understands cell functions involve specific chemical reactions. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
3	3.1K5 understands cells can differentiate thereby enabling complex multicellular organisms to form. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
4	3.5K4 understands the structure and function of an organism serve to acquire, transform, transport, release and eliminate the matter and energy used to sustain the organism. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
5	3.6K1 understands animals have behavioral responses to internal changes and to external stimuli. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
6	3.6K2 understands most multicellular animals have nervous systems that underlie behavior. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
7	3.7K2 understands that homeostasis is the dynamic regulation and balance of an organisms internal environment to maintain conditions suitable for survival. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
8	3.7K4 understands that in complex organisms there is a division of labor into specific body systems, i.e. respiration, digestion, nervous, endocrine, Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)

		excretion, circulatory, reproductive, immune, skeletal and muscle.	
		Add Lesson Plan...	Upload Indicator Support Documents...
10	6.1K2	understands the severity of disease symptoms is dependent on many factors.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
11	6.1K3	understands informed personal choices concerning fitness and health involve an understanding of chemistry and biology.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
12	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...
12	7.1K6	recognizes society's role in supporting topics of research and determining institutions where research is conducted.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...
Upload Unit Support Documents...			

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Girard USD 248 Curriculum Alignment



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

A&P - Q3 - Transport, Absorption, Excretion

Unit Description

• Blood & Cardiovascular System • Lymphatic System & Immunity • Digestive System & Nutrition • Respiratory System • Urinary System & Homeostasis

Unit Indicators

Order	Indicator	Priority
1	3.1K1 understands cells are composed of a variety of specialized structures that carry out specific functions. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	3.1K2 understands cell functions involve specific chemical reactions. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
3	3.1K5 understands cells can differentiate thereby enabling complex multicellular organisms to form. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
4	3.5K3 understands food molecules contain biochemical energy, which is then available for cellular respiration. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
5	3.5K4 understands the structure and function of an organism serve to acquire, transform, transport, release and eliminate the matter and energy used to sustain the organism. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
6	3.7K2 understands that homeostasis is the dynamic regulation and balance of an organisms internal environment to maintain conditions suitable for survival. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
7	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...	(Mastery)

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



Girard USD 248 Curriculum Alignment



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

A&P - Q4 - Reproduction & Development; Comparative Vertebrate Anatomy

Unit Description

• Male & Female Reproductive Systems • Pregnancy, Growth, Development • Genetics • Comparative Vertebrate Anatomy - Cat Lab & Cadaver Lab

Unit Indicators

Order	Indicator	Priority
1	5.1K1 understands technology is the application of scientific knowledge for functional purposes. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
1	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...	(Building Blocks)
2	3.1K5 understands cells can differentiate thereby enabling complex multicellular organisms to form. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
2	7.1K6 recognizes society's role in supporting topics of research and determining institutions where research is conducted. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
2	5.1K2 understands creativity, imagination, and a broad scientific knowledge base are required to produce useful results. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
3	5.1K3 understands science advances new technologies. New technologies open new areas for scientific inquiry. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
3	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)
4	3.2K2 understands organisms usually have a characteristic number of chromosomes; one pair of these may determine the sex of individuals. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
5	3.2K3 understands hereditary information is contained in genes, located in Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)

		the chromosomes of each cell.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
6	3.2K4	understands gametes carry the genetic information to the next generation.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
7	3.7K1	understands differences in structure and function among organisms and can identify the characteristics of relevant life forms.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
8	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...
9	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.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
10	7.1K5	understands there are many issues which involve morals, ethics, values or spiritual beliefs that go beyond what science can explain, but for which solid scientific literacy is useful.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...
11	6.1K3	understands informed personal choices concerning fitness and health involve an understanding of chemistry and biology.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
12	6.1K2	understands the severity of disease symptoms is dependent on many factors.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
Upload Unit Support Documents...			

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