



Girard USD 248 Curriculum Alignment



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

Biotechnology (Q2)

Unit Description

This unit is designed to expose students to equipment and techniques being used in the field of biotechnology. Basic lab techniques like chromatography, titration, electrophoresis, and qualitative analysis are covered. A field trip to the Green Bush Biotechnology lab allows students to work with equipment that would otherwise be too expensive for our school to maintain. This is an attempt to expose students to a very profitable fast growing field of biology.

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	1.1K3 actively engages in using technological tools and mathematics in their own scientific investigations. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
1	7.1K1 demonstrates an understanding of science as both vocation and avocation. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
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...	(Building Blocks)
1	5.1K1 understands technology is the application of scientific knowledge for functional purposes. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
1	5.1K2 understands creativity, imagination, and a broad scientific knowledge base are required to produce useful results.	(Building Blocks)

		Add Lesson Plan...	Upload Indicator Support Documents...	
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.	(Foundation)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
2	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...	
2	1.1K2	designs investigations, including developing questions, gathering and analyzing data, and designing and conducting research.	(Mastery)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
2	6.1K1	understands some chemical and physical hazards and accidents can be avoided through safety education.	(Mastery)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
2	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...	
2	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...	
2	7.1K6	recognizes society's role in supporting topics of research and determining institutions where research is conducted.	(Building Blocks)	
		Add Lesson Plan...	Upload Indicator Support Documents...	
2	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...	

3	6.1K4	understands selection of foods and eating patterns determine nutritional balance which affects emotional and physical well-being.
	Add Lesson Plan...	Upload Indicator Support Documents...
Upload Unit Support Documents...		

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

Comparative Anatomy (Q4)

Unit Description

Students observe three classes of fish by dissection. They also preform a dissection of an amphibian. When complete students are given a lab practical test that requires students know these classes and orders.

Unit Indicators

Order	Indicator	Priority
1	3.6K3 understands behaviors are often adaptive when viewed in terms of survival and reproductive success. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
1	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)
1	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)
1	3.7K1 understands differences in structure and function among organisms and can identify the characteristics of relevant life forms. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
2	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)

2	3.7K2	understands that homeostasis is the dynamic regulation and balance of an organism's internal environment to maintain conditions suitable for survival.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	3.3K5	understands that the primary mechanism acting on variation is natural selection.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	3.3K1	understands biological evolution, descent with modification, is a scientific explanation for the history of the diversification of organisms from common ancestors.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	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...
2	3.3K2	understands populations of organisms may adapt to environmental challenges and changes as a result of natural selection, genetic drift, and various mechanisms of genetic change.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
Upload Unit Support Documents...			

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

Disease, Blood, and The Immune System (Q3/Q4)

Unit Description

Introduces students to advanced microbiological techniques and how they apply to the treatment and prevention of human disease. It also looks at the composition of blood and blood cell types. This knowledge is applied to the study of both a primary and secondary immune response. Finally students are introduced to how many modern diseases are treated and why they are treated that way.

Unit Indicators

Order	Indicator	Priority
1	6.1K2 understands the severity of disease symptoms is dependent on many factors. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
1	3.1K5 understands cells can differentiate thereby enabling complex multicellular organisms to form. 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...	(Building Blocks)
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...	(Building Blocks)
1	3.1K2 understands cell functions involve specific chemical reactions. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	3.2K3 understands hereditary information is contained in genes, located in the chromosomes of each cell. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)

2	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...
Upload Unit Support Documents...			

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

Embryology (Q3)

Unit Description

An overview of human embryo development. It covers stem cells, research techniques, morphogenesis, differentiation and early stages of embryo genesis. Students observe fertilization, blastulation, and gastrulation. The ethics of using embryo tissue for research is also introduced.

Unit Indicators

Order	Indicator	Priority
1	3.2K3 understands hereditary information is contained in genes, located in the chromosomes of each cell. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
1	3.1K5 understands cells can differentiate thereby enabling complex multicellular organisms to form. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
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...	(Building Blocks)
1	5.1K1 understands technology is the application of scientific knowledge for functional purposes. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
1	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...	
1	3.2K5 understands expressed mutations occur in DNA at very low rates. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)

1	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...
1	3.2K4	understands gametes carry the genetic information to the next generation.	
		Add Lesson Plan...	Upload Indicator Support Documents...
1	3.1K1	understands cells are composed of a variety of specialized structures that carry out specific functions.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
1	3.1K2	understands cell functions involve specific chemical reactions.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	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...
2	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...
2	7.1K6	recognizes society's role in supporting topics of research and determining institutions where research is conducted.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	7.1K4	recognizes that society helps create the ways of thinking (mindsets) required for scientific advances, both toward training scientists and educating a populace to utilize benefits of science (e.g., standards of hygiene, attitudes toward forces of nature, etc.).	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	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...
2	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...	
2	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...	
2	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.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
3	5.1K3	understands science advances new technologies. New technologies open new areas for scientific inquiry.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
Upload Unit Support Documents...				

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

Ethics (Q4)

Unit Description

Short unit that addresses some modern medical and research ethics issues. This unit is designed to help student understand why things like the

Unit Indicators

Order	Indicator	Priority
1	7.1K4 recognizes that society helps create the ways of thinking (mindsets) required for scientific advances, both toward training scientists and educating a populace to utilize benefits of science (e.g., standards of hygiene, attitudes toward forces of nature, etc.).	(Building Blocks)
	Add Lesson Plan...	Upload Indicator Support Documents...
1	7.1K6 recognizes society's role in supporting topics of research and determining institutions where research is conducted.	(Building Blocks)
	Add Lesson Plan...	Upload Indicator Support Documents...
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.	(Building Blocks)
	Add Lesson Plan...	Upload Indicator Support Documents...
2	5.1K1 understands technology is the application of scientific knowledge for functional purposes.	(Mastery)
	Add Lesson Plan...	Upload Indicator Support Documents...
2	5.1K3 understands science advances new technologies. New technologies open new areas for scientific inquiry.	(Building Blocks)
	Add Lesson Plan...	Upload Indicator Support Documents...
2	5.1K2 understands creativity, imagination, and a broad scientific knowledge base are required to produce useful results.	(Building Blocks)

	Add Lesson Plan...	Upload Indicator Support Documents...	
2	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...	
Upload Unit Support Documents...			

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

Exercise Physiology (Q2, Q3)

Unit Description

Designed to give students an understanding of overload principle, recovery, how exercise can lead to improved quality of life, and how exercise can prevent health problems. The metabolic pathways (Glycolysis, Krebs, and electron transport) are covered in both aerobic and anaerobic situation and students are required to develop their own exercise plan to improve their overall health and well being.

Unit Indicators

Order	Indicator	Priority
1	6.1K4 understands selection of foods and eating patterns determine nutritional balance which affects emotional and physical well-being. Add Lesson Plan... Upload Indicator Support Documents...	
1	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)
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...	(Building Blocks)
1	3.6K1 understands animals have behavioral responses to internal changes and to external stimuli. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	6.1K2 understands the severity of disease symptoms is dependent on many factors. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
2	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 Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)

		energy. Ionic compounds result from atoms transferring electrons. Molecular compounds result from atoms sharing electrons.	
		Add Lesson Plan...	Upload Indicator Support Documents...
2	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...
2	6.4K1	understands that natural processes on the earth may be hazardous for humans.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...
Upload Unit Support Documents...			

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Field Biology (Q1-Q2)

Unit Description

This is an introduction to field biology and conservation. Students cover ecology, environmental problems, field lab techniques, and improvement planning. It includes a field trip to take water and soil samples as well as an overview of the natural history of a farm in Neosho county Kansas.

Unit Indicators

Order	Indicator	Priority
1	6.2K3 understands populations have limits to growth. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
1	3.5K1 understands living systems require a continuous input of energy to maintain their chemical and physical organization. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
1	2b.2K1 understands matter has energy. Mass and energy can be interchanged. The total energy in the universe is constant, but the type of energy may vary. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
1	4.14 understands the processes of water cycling through surface water (oceans, lakes, streams, glaciers), ground water (aquifers), and the atmosphere. (hydrological cycle) Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
1	4.1K3 understands that the ultimate source of atmospheric and oceanic energy comes from the sun. Energy flow drives global climate and weather. Climate and weather are influenced by geographic features, cloud cover, and the earth's rotation. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)
1	6.3K2 understands earth does not have infinite resources. Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)

1	6.4K2	understands there is a need to assess potential risk and danger from natural and human-induced hazards.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
1	3.4K3	understands the distribution and abundance of organisms and populations in ecosystems are limited by the carrying capacity.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
1	3.4K5	understands human beings live within and impact ecosystems.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...
1	6.2K1	understands the rate of change in populations is determined by the combined effects of birth, death, emigration, and immigration.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
1	6.3K1	understands natural resources from the lithosphere and ecosystems are required to sustain human populations.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
1	3.5K2	understands the sun is the primary source of energy for life through the process of photosynthesis.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	3.3K3	understands biological evolution is used to explain the earth's present day biodiversity: the number, variety and variability of organisms.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	3.6K3	understands behaviors are often adaptive when viewed in terms of survival and reproductive success.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...
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.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	6.4K1	understands that natural processes on the earth may be hazardous for humans.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...

2	3.4K2	understands energy is received, transformed and expended in ecosystems.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...
3	5.1K3	understands science advances new technologies. New technologies open new areas for scientific inquiry.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
3	1.1K3	actively engages in using technological tools and mathematics in their own scientific investigations.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
3	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...
3	3.4K1	understands atoms and molecules on the earth cycle among the living and nonliving components of the biosphere.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
Upload Unit Support Documents...			

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

Population genetics (Q1)

Unit Description

This unit looks at the genetics of populations. This applies the concepts of natural selection, Hardy Weinberg Principle, and evolution to the formation of new species. It also looks at how species (populations) change over time.

Unit Indicators

Order	Indicator	Priority
1	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)
1	3.3K5 understands that the primary mechanism acting on variation is natural selection. Add Lesson Plan... Upload Indicator Support Documents...	(Foundation)
1	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)
1	3.3K2 understands populations of organisms may adapt to environmental challenges and changes as a result of natural selection, genetic drift, and various mechanisms of genetic change. Add Lesson Plan... Upload Indicator Support Documents...	(Mastery)
2	7.1K4 recognizes that society helps create the ways of thinking (mindsets) required for scientific advances, both toward training scientists and educating a populace to utilize benefits of science (e.g., standards of hygiene, attitudes toward forces of nature, etc.). Add Lesson Plan... Upload Indicator Support Documents...	(Building Blocks)

2	3.3K4	understands organisms vary widely within and between populations. Variation allows for natural selection to occur.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
2	3.3K1	understands biological evolution, descent with modification, is a scientific explanation for the history of the diversification of organisms from common ancestors.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
3	3.6K3	understands behaviors are often adaptive when viewed in terms of survival and reproductive success.	(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...
3	7.3K2	demonstrates a knowledge that scientific method historically proceeded from an inductive approach rather than a deductive approach.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
3	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.	(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...
3	5.1K1	understands technology is the application of scientific knowledge for functional purposes.	(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...
Upload Unit Support Documents...			



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

Research Project (Q2, Q3, Q4)

Unit Description

This is a long term research project of the students choosing. Students must test a hypothesis using scientific method and defend their research to their peers. Students are required to write a detailed report over the experiment and their finding and then defend those finding to their class.

Unit Indicators

Order	Indicator	Priority
1	7.1K4 recognizes that society helps create the ways of thinking (mindsets) required for scientific advances, both toward training scientists and educating a populace to utilize benefits of science (e.g., standards of hygiene, attitudes toward forces of nature, etc.).	(Building Blocks)
	Add Lesson Plan...	Upload Indicator Support Documents...
1	1.1K2 designs investigations, including developing questions, gathering and analyzing data, and designing and conducting research.	(Mastery)
	Add Lesson Plan...	Upload Indicator Support Documents...
1	7.3K2 demonstrates a knowledge that scientific method historically proceeded from an inductive approach rather than a deductive approach.	(Building Blocks)
	Add Lesson Plan...	Upload Indicator Support Documents...
1	1.1K1 actively engages in asking and evaluating research questions.	(Foundation)
	Add Lesson Plan...	Upload Indicator Support Documents...
1	7.2K3 understands scientific knowledge consists of hypotheses, inferences, laws, and theories.	(Building Blocks)
	Add Lesson Plan...	Upload Indicator Support Documents...
1	7.2K4 understands a testable hypothesis or inference must be subject to confirmation by empirical evidence.	(Building Blocks)

		Add Lesson Plan...	Upload Indicator Support Documents...	
1	7.2K2	understands scientific knowledge begins with empirical observations, which are the data (also called facts or evidence) upon which further scientific knowledge is built.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
1	7.1K2	explains how science uses peer review, replication of methods, and norms of honesty.		(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...	
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.		(Foundation)
		Add Lesson Plan...	Upload Indicator Support Documents...	
2	1.1K3	actively engages in using technological tools and mathematics in their own scientific investigations.		(Mastery)
		Add Lesson Plan...	Upload Indicator Support Documents...	
2	7.1K1	demonstrates an understanding of science as both vocation and avocation.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
2	7.1K6	recognizes society's role in supporting topics of research and determining institutions where research is conducted.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
2	5.1K2	understands creativity, imagination, and a broad scientific knowledge base are required to produce useful results.		(Building Blocks)
		Add Lesson Plan...	Upload Indicator Support Documents...	
Upload Unit Support Documents...				

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