

Prairie Middle School

Department Summary: Science - Grade: 6/7/8

Course Information	AUG/SEPT	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY/JUNE
	Content -- Skills -- Assessments			Content -- Skills -- Assessments					
6TH GRADE	Investigative questions Observations Inferences Science Processes Experimental Design	Investigative questions Observations Inferences Science Processes Experimental Design and Models	Invest. Ques. Observations Inferences Sci. Processes Exper. Design Sci. and new tech. Sci. is unending. Sci. influenced by point of view. Prop. of Matter Measuring Mass/Vol.	Properties of Matter Measuring Mass and Volume	Properties of Matter States of Matter Physical and Chemical Changes	Properties of Matter States of Matter Physical and Chemical Changes	Structure and Function of Living Systems Regulation and behavior Diversity and Adaptations	Structure and Function of Living Systems Regulation and behavior Diversity and Adaptations	Structure and Function of Living Systems Regulation and behavior Diversity and Adaptations
7TH GRADE	Science Process & Skills: inferring, measuring, observing, questioning, recording data, graphing	Scientific Method: experimenting hypothesizing controlling variables interpreting data	Forces and Motion: gravity, friction, inertia, mass & weight.	Forces and Motion--- Begin Astronomy (late Nov.)	Astronomy: moon, stars and other celestial bodies: rockets	Astronomy: Big Bang Theory. Begin Earth Science: geological time, Earth's structure	plate tectonics, earthquakes volcanoes, Rock Cycle.	Finish Earth Science. Begin Life Science: classification scientific names, kingdoms: Moneran, Protista, Fungi	Biodiversity and interactions Plant and Animal Kingdom
8TH GRADE	Scientific Inquiry/Photosynthesis	Importance of Water	Human Body Systems	Physical science/Properties of matter	Particle Theory	Ocean and Climates	Climate	Genetics/Biotechnology	Genetics/Biotechnology

Prairie Middle School

Science - Grade: 6th

Course Information	AUG/SEPT	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY/JUNE
	Content -- Skills -- Assessments					Content -- Skills -- Assessments			
Standards & Content	Nature of Science Scientific Inquiry Being Scientific Technology and Social Perspectives	Nature of Science Scientific Inquiry Being Scientific Technology and Social Perspectives	Nature of Science Scientific Inquiry Being Scientific Technology and Social Perspectives Physical Science	Nature of Science Scientific Inquiry Physical Science	Nature of Science Scientific Inquiry Physical Science	Nature of Science Scientific Inquiry Physical Science	Nature of Science Scientific Inquiry Life Science	Nature of Science Scientific Inquiry Life Science	Nature of Science Scientific Inquiry Life Science
Concepts & Skills	Investigative questions Observations Inferences Science Processes Experimental Design	Investigative questions Observations Inferences Science Processes Experimental Design and Models	Investigative questions Observations Inferences Science Processes Experimental Design Science leads to new technology Science is unending Science is influenced by humans and their points of view. Properties of Matter Measuring Mass and Volume	Properties of Matter Measuring Mass and Volume	Properties of Matter States of Matter Physical and Chemical Changes	Properties of Matter States of Matter Physical and Chemical Changes	Structure and Function of Living Systems Regulation and behavior Diversity and Adaptations	Structure and Function of Living Systems Regulation and behavior Diversity and Adaptations	Structure and Function of Living Systems Regulation and behavior Diversity and Adaptations
Major Assessments & Projects	Mobius Strip... Investigative Science Lab (buckeyes)... Mystery Powders Lab... Mystery Object (the thing)	Drought Stopper Model.... The Swinger (pendulum)... Milk Lab... Reaction Lab	Paper Thing (Take Home Science Experiment)... Unit One Test	Mass Lab... Volume Labs (solid and hollow objects, hand and lung capacity).. Chapeter 12 Test	States of Matter Demonstrations and Test... Changes of State Demonstrations and Test	Chemicals in our Lives (project).. Chemical Changes Lab... Acid and Base Demonstrations.. Chemical Flame Test Demonstration	Plant and animal cell lab.... Onion Lab	Pond Water Lab... Cell Model Project.... Grow Plants	Grow Plants... Animal Locomotion Lab

Prairie Middle School

Science - Grade: 7th

Course Information	AUG/SEPT	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY/JUNE
	Content -- Skills -- Assessments				Content -- Skills -- Assessments				
Standards & Content	Scientific Inquiry	Scientific Inquiry	Physical Science	Earth Science	Earth Science	Earth science	Earth Science	Life Science	Life Science
Concepts & Skills	Science Process & Skills: inferring, measuring, observing, questioning, recording data, graphing	Scientific Method: experimenting hypothesizing controlling variables interpreting data	Forces and Motion: gravity, friction, inertia, mass & weight.	Forces and Motion--- Begin Astronomy (late Nov.)	Astronomy: moon, stars and other celestial bodies: rockets	Astronomy: Big Bang Theory. Begin Earth Science: geological time, Earth's structure	plate tectonics, earthquakes volcanoes, Rock Cycle.	Finish Earth Science. Begin Life Science: classification scientific names, kingdoms: Moneran, Protista, Fungi	Biodiversity and interactions Plant and Animal Kingdom
Major Assessments & Projects	simple activities w/measurement tools: meter stick, balance, beakers & graduated cylinders	Bubble Gum Testing/Research Project, formal scientific lab report	labs w/Forces, gravity, friction, inertia, pendulums. Physics of Sports project, Coralville fieldtrip, egg Bungee drop	Motion of the moon, eclipses, scaling. Building of rockets, moon journal	Activities with Star charts/constellati on patterns. Planetarium?	Planets. Project w/Astronomy theme. Geologic Time (scaling activity). Earth's structure	activities w/ plate tectonincs, Earthquake waves, rocks & minerals, volcanoes: test @ end	Simple classification activities. Microscope work w/ bacteria, protozoa & fungi. Activities with fungi.	Activities w/Biodiversity & Interactions from the book, food webs, and how plants grow

Prairie Middle School

Science - 8th

Course Information	AUG/SEPT	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY/JUNE
	Content -- Skills -- Assessments				Content -- Skills -- Assessments				
Standards & Content	Scientific Inquiry, Life Science, Nature of Science, Science Tech. and society, How to design an experiment.	Physical Science, Nature of Science	Life Science	Physical science, History of Science, Nature of Science	History of Science, Nature of Science	Earth Science, Scientific Inquiry, Nature of Science	Earth Science, Scientific Inquiry, Nature of Science	Earth Science, Scientific Inquiry, Nature of Science	Life Science
Concepts & Skills	Microscopes Experimental design, Food webs, ecosystems, Observation Photosynthesis, Importance of plants	Water Cycle, Characteristics of water, Importance of Water	Human Body Systems: Digestive, Circulatory, Nervous, Respiration and Excretory	Inferences, models, exponents, Play Dough molecule models, Physical properties of matter	Volume, Periodic Table Elements, Particle Theory	Ocean floor features, salinity, Characteristics of oceans	Making a Newsletter, Meteorology, Understanding climate	Traits, hereditary Disease, Understanding global interaction of oceans and atmosphere	Structure of DNA, Genetics, Biotechnology
Major Assessments & Projects	Scientific Inquiry, Assessment whater students design and experiment and carry it out, then write a lab report.	Water Cycle Children's book, Importance of water to plants	Body System Models		Particles test			Earth Science Assessment/New sletter format	Genetic Disease Report