

Curriculum Map
Theme: Power of One

6th Grade	September	October	November	December	January	February	March	April	May	June
Component	Power of the Universe			Power of Innovation		Power of a Life Form				
Topic	The Nature of Science/Mapping Earth	Weather	Human Impact	Engineering and Design Month!	Thermal Energy	Cells	Human Anatomy and Functions	Plants	Heredity and Genetics	Amazing Race of Science
Topic Description	Scientific Method, variables, how to write a lab report, various science skills practice	Describing Weather, Clouds, Pressure Systems, Mapping Weather, Weather and Climate, Hurricanes	Intro to Human Impact, Pollution, Global Warming, Environmental Issues, Protecting Environment	The Engineering and Design Process	Energy & Thermal Energy (What is Heat?, Heat Transfer, Temperature, Phase Change, Temperature Change)	Classes and Types Multicellular Cell Membrane	Skin Bones Muscles Nervous Circulatory and Respiration Digestion Organ System Interactions	Plant needs and anatomy trees reproduction adaptations physiology	Introduction Mendelian Genetics	Review of science topics learned throughout the school year
NGSS AND CCSS ALIGNMENT	NGSS: MS-ETS-1-1, MS-ETS-1-3, CCSS: RST.6-8.1, RST.6-8.9, WHST.6-8.7, WHST.6-8.8, WHST.6-8.9	NGSS: MS-ESS2-4, MS-ESS2-5, MS-ESS2-6, MS-ESS3-5 CCSS: RST.6-8.1, RST.6-8.9, WHST.6-8.8, 6.NS.C.5	NGSS: MS-ESS3-3 CCSS: WHST.6-8.7, WHST.6-8.8, 6.RP.A.1, 6.EE.B.6	NGSS: MS-ETS1-1, MS-ETS1-2, MS-ETS1-3, MS-ETS1-4	NGSS: MS-PS3-3, MS-PS3-4, MS-PS3-5 CCSS: RST.6-8.1, RST.6-8.3, WHST.6-8.1, WHST.6-8.7, 6.RP.A.1	NGSS: MS-LS1-1, MS-LS1-2, CCSS: RST.6-8.1, RI.6.8, WHST.6-8.1, WHST.6-8.7, WHST.6-8.8, 6.EE.C.9	NGSS: MS-LS1-3, MS-LS1-8 CCSS: RST.6-8.1, RI.6.8, WHST.6-8.1, WHST.6-8.7, WHST.6-8.8, 6.EE.C.9	NGSS: MS-LS1-4, MS-LS1-5, CCSS: RST.6-8.1, RST.6-8.2, RST.6-8.4, RST.6-8.7, RI.6.8, WHST.6-8.1, WHST.6-8.2, WHST.6-8.9, 6.SP.A.2, 6.SP.B.4, 6.SP.B.5	MS-LS3-2, MS-LS1-5 CCSS: RST.6-8.1, RST.6-8.2, RST.6-8.4, RST.6-8.7, RI.6.8, WHST.6-8.1, WHST.6-8.2, WHST.6-8.9, 6.SP.A.2, 6.SP.B.4, 6.SP.B.5	NGSS: MS-ETS-1-1, MS-ETS-1-3,
Core Knowledge Correlation		Oceans- trenches, surface, subsurface land features Science Bio: Alfred Wegener, Gabriel Fahrenheit			Energy, Heat and Energy Transfer Science Bio: Marie Curie, Lewis Latimer	Science Bio: Robert Hooke	lymphatic, circulatory, immune systems; bacterial and viral diseases		Cell Division and Genetics- Greogor Mendel, double helix, mitosis and meiosis, genetic engineering, "Rosalind Franklin, Watson and Crick "	
Essential Questions	How does the process of scientific investigation contribute to what we know about the world?	What regulates weather and climate?	How do the Earth's surface processes and human activities affect each other?	How do engineers solve problems?	How is energy transferred between objects or systems?	How do the structures of organisms enable life's functions?	How do organisms grow and develop?	How do organisms obtain and use the matter and energy they need to live and grow?	How do living organisms pass traits from one generation to the next?	