Cornerstone Charters- Science Concept Map

K	1st Grade	2nd Grade	3rd Grade	4th Grade	5th Grade	6th Grade	7th Grade	
Senses	Science Fair Experiment (whole class) Collecting/tracking data	Individual science fair projects Centimeters Liters (just labeling)	Scientific Method Analyze and communicate Findings Compare and contrast data Use data to create bar and line graphs METRIC -meter, centimeter	Detailed units of measurement Measurement tools Lab equipment Science Fair/Scientific Method Metric Measurement Representing data Drawing conclusions Evaluating the strength of claims using data.	Metric measuring devices (labeling and measuring) Measurement tools Lab equipment Science Fair/Scientific Method Metric Measurement Representing data Drawing conclusions Evaluating the strength of claims using data.	Metric measuring devices (labeling and measuring) Lab equipment Science Fair/Scientific Method Representing data Drawing conclusions Evaluating the strength of claims using data.	Metric measuring devices (labeling and measuring) Lab equipment Science Fair/Scientific Method Representing data Drawing conclusions Evaluating the strength of claims using data. Scientific notation	M r d (r I e S F N F d I c E t c u

ısh and ıll rces	States of Matter Float and sink Magnets - attract/repel Magnetic and nonmagnetic materials	Classification based on physical properties Sorting mixtures	Force Motion Speed Direction Gravity Light Energy Sound Energy	Properties and Changes in matter Energy	Forces and Motion	Kinetic/Potential energy Mechanical system Radiation/Conduction/Convection Forms of energy (sound, light, etc)	Chemical properties (interactions, pH, flammability, acids, bases) Reactants, products Properties and trends of the periodic table Atoms, molecules, elements Properties of waves Heat and light interactions	C s p C c C s c p F a S c r (e C e c r S f c r
ving d ınliving ings ısic eds to rvive fe	Life cycle - plants Life cycle - butterfly Classifying animals	Habitats Plant needs Plant life cycle	Structures and functions of plants and animals Adaptations	Organization of living things Ecosystems Social Implications	Animal Systems Organisms and living things Heredity	Producers/Consumers/Decomposers Populations/Communities/Ecosystems	Cells Organs, Tissue, organ system Mitosis.	F c

cle	Habitats, survival, instincts				and acquired traits Heredity and Evolution	Common relationships between populations (competition, parasitism, etc) Food webs	Embryos Photosynthesis. Carbohydrates, fats, and protein. Sexual reproduction. Asexual reproduction. Heredity	
asons rth aterials Rock, ineral, il ater cle	Types of weather Types of clouds Weather tools Weather patterns Water cycle	Properties of water Bodies of water Fresh/salt water Sources of drinking water States of water Landforms - surface features	Resources: Natural Renewable Non-renewable Reduce, Reuse, Recycle Human Impact Earth materials Surface Changes	Earth in Time and Space Earth, Sun, Moon characteristics, movement shape Fossil Evidence	How did fossils showing evidence of how conditions have changed	Rock cycle Weathering and Erosion, Deposition, Cementation Components of Soil Plate tectonics Layers of Earth Magnets/Compasses/Navigation Fossils/Earth Layers	Hydrosphere-Water Cycle Weather Climate Characteristics of a cold, warm, occluded, and stationary front. Frontal boundaries & Jet streams Watersheds Elements and compounds that make up the	V A v F C F S S S N F

							atmosphere Pollution and human impact