

BCCS
High School EARTH SCIENCE Curriculum Map
 (Revised 5-29-08)

Month	Content What topic(s) is being covered and what is the important vocabulary? What do students need to know?		Skills What do student have to be able to do connected to the Content?	Essential Questions What are fundamental, enduring questions that will guide study and instruction?	Standards / Benchmarks What benchmarks are met through this topic?	Instruction What activities are used to develop the skills and knowledge?	Resources What materials, texts, videos, internet, software, or human resources support instruction?	Assessment What evidence (products and/or performances) is collected to establish that the Content and Skills have been learned?
September – 1 st two weeks	Topic: Astronomy 1	Vocabulary: <ul style="list-style-type: none"> ▪ Aphelion ▪ Astronomy ▪ Autumnal and Vernal Equinox ▪ Earth Science ▪ Geomagnetic Poles ▪ Hypothesis ▪ International Date Line ▪ Latitude ▪ Longitude ▪ Magnetic Declination ▪ Magnetosphere ▪ Perihelion ▪ Prime Meridian ▪ Revolution ▪ Rotation ▪ Summer and Winter Solstice ▪ Theory ▪ True North ▪ Variable 	<ul style="list-style-type: none"> ▪ Using the sun to tell time and position ▪ Reading a map ▪ Graphing ▪ Finding latitude and longitude ▪ Calculating the circumference of the earth ▪ Using astronomy software 	<ul style="list-style-type: none"> ▪ Why do seasons occur on earth? ▪ Why do compasses point north? ▪ How can celestial objects be used in navigation? ▪ What is the circumference of the Earth? ▪ How was latitude and longitude calculated? 	<ul style="list-style-type: none"> ▪ Sky observations (E5) ▪ Earth in space (E5.1) 	<ul style="list-style-type: none"> ▪ MI Map Search ▪ Burt's Solar Compass Reading ▪ Goldilocks Hypothesis Organizer ▪ Planet Identification Activity ▪ Planet Characteristics Research ▪ Graphing Sunrises at Stonehenge ▪ Calculating the Circumference of the Earth ▪ Sun Clock Project ▪ Seasons Diagram ▪ Warm-ups ▪ Astronomy Jeopardy 	<ul style="list-style-type: none"> ▪ MI highway maps ▪ MI map slides ▪ What Planet is This? DVD ▪ Drake Equation ▪ Seasons Diagram ▪ Stonehenge Power Point and DVD ▪ Burt's Solar Compass Ppt ▪ Eratosthenes Ppt ▪ Earth Globe ▪ Seasons Globe ▪ Spheres and rulers ▪ Atlas of the Sky DVD ▪ Starry Night Software ▪ Ephemeris MP3's 	<ul style="list-style-type: none"> ▪ MI map quiz ▪ Planets quiz ▪ Seasons Quiz ▪ Ancient astronomy quiz ▪ Ephemeris warm-ups ▪ Astronomy 1 test

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September – 2 nd two weeks / October	Topic: Oceanography	Vocabulary: <ul style="list-style-type: none"> ▪ Abyssal Plains ▪ Benthic ▪ Continental Shelf ▪ Continental Slope ▪ Coriolis Effect ▪ Currents ▪ Distillation ▪ Gulf Stream ▪ Intertidal Zone ▪ Longshore Current ▪ Nekton ▪ Ooze ▪ Pelagic ▪ Plankton ▪ Rip Current ▪ Salinity ▪ Seamounts ▪ Sonar ▪ Tides ▪ Trenches 	<ul style="list-style-type: none"> ▪ Reading a map ▪ Using an ID key ▪ ID common ocean organisms ▪ ID common ocean floor features ▪ Reading a tide table 	<ul style="list-style-type: none"> ▪ Describe major causes for ocean currents ▪ Explain how oceans influence climates ▪ Explain how Coriolis effect controls ocean circulation ▪ Explain how the oceans stay salty ▪ Explain ocean tides ▪ Explain hydrothermal vents ▪ Explain how human activities impact coral reefs ▪ Describe the conditions of formation associated with hurricanes 	<ul style="list-style-type: none"> ▪ Water Cycle (E4) ▪ Oceans and Climate (E4.2) ▪ EQ's and Volcanoes (E3.4) ▪ Landforms and Solis – coastal features (E3.p1C) ▪ Resources and Human Impacts – coral reefs (E2.4B) ▪ Severe weather – Hurricanes (E4.3) 	<ul style="list-style-type: none"> ▪ Oceanography map activity ▪ Pacific poster activity ▪ Mollusk lab ▪ Oceanography DVD ▪ Ocean floor features activity ▪ SONAR demos ▪ Olympic National Park slide show and outline ▪ Recording tide data ▪ Hydrothermal vent diagram activity ▪ Oceanography Jeopardy 	<ul style="list-style-type: none"> ▪ World ocean map ▪ Earth globe ▪ Pacific poster and key ▪ Mollusk kits and key ▪ Tide animations ▪ Tidal data web site ▪ Olympic NP slides ▪ Hydrothermal vent Ppt ▪ Sittin' on the Dock DVD ▪ Coral Reef DVD 	<ul style="list-style-type: none"> ▪ Ocean map quiz ▪ Pacific poster quiz ▪ Ocean features quiz ▪ Oceanography test

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October – 2 nd two weeks / November	Topic: Tectonics	Vocabulary: <ul style="list-style-type: none"> ▪ Asthenosphere ▪ Continental drift ▪ Convection ▪ Convergent ▪ Core ▪ Crust ▪ Deformation ▪ Divergent ▪ Lithosphere ▪ Mantle ▪ Plate tectonic ▪ Shearing ▪ Subduction ▪ Tension 	<ul style="list-style-type: none"> ▪ Remote sensing ▪ Calculating plate motions ▪ Making a magnetometer 	<ul style="list-style-type: none"> ▪ Explain how tectonics accounts for features on the Earth's surface ▪ Explain how and why tectonic plates move ▪ Describe the motion history of geologic features ▪ Describe the differences between oceanic and continental crust ▪ Describe the interior layers of the Earth 	<ul style="list-style-type: none"> ▪ Basic Plate Tectonics (E3.p2) ▪ Plate Tectonics Theory (E3.3) ▪ Interior of the Earth (E3.2) 	<ul style="list-style-type: none"> ▪ Tectonics vocabulary crossword puzzle ▪ Tectonic plates puzzle activity ▪ Plate boundary lab ▪ Point Reyes slide show and map activity ▪ Grand Tetons slide show and map activity ▪ Zones of the Earth demos and diagram activity ▪ Pangaea paragraph activity ▪ Tectonic stress analyss ▪ Tectonics Jeopardy 	<ul style="list-style-type: none"> ▪ Continental Drift Ppt ▪ Into Thin Air Ppt ▪ Plate Boundaries Ppt ▪ Tectonic Stress Ppt ▪ GIS Software demo ▪ Theory of Tectonics CD ▪ Mt. Everest DVD ▪ Earth and Sky MP3's ▪ Volcano Music DVD ▪ Lava Lamp ▪ Aerial photos and stereoscopes ▪ Bill Nye DVD 	<ul style="list-style-type: none"> ▪ Tectonic plate quiz ▪ Mt. Everest quiz ▪ Earth & Sky Warm-ups ▪ Plate boundary quiz ▪ Tectonics test

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November – 2 nd two week / December	Topic: Seismology	Vocabulary: <ul style="list-style-type: none"> ▪ Aftershocks ▪ Earthquakes ▪ Elastic Rebound ▪ Theory ▪ Epicenter ▪ Fault Zones ▪ Focus ▪ Intensity ▪ L Waves ▪ Mercalli Scale ▪ Microquakes ▪ P Waves ▪ Pacific Ring of Fire ▪ Richter Scale ▪ S Waves ▪ Seismic Gaps ▪ Seismic Waves ▪ Seismograph ▪ Seismologist ▪ Tsunami 	<ul style="list-style-type: none"> ▪ Calculating the magnitude of an EQ ▪ Locating an EQ's epicenter ▪ Designing an EQ building 	<ul style="list-style-type: none"> ▪ Explain how EQ's are formed ▪ Explain how seismic waves are used to x-ray the Earth's interior ▪ Explain how the depth and magnitude of EQ's can be used to distinguish plate boundaries ▪ Describe the effect of EQ's on humans ▪ Describe how to measure and calculate the size of EQs. ▪ Explain why fences are offset after an EQ using the elastic rebound theory 	<ul style="list-style-type: none"> ▪ Plate Tectonics Theory (E3.3) ▪ Earthquakes and Volcanoes (E3.4) 	<ul style="list-style-type: none"> ▪ Seismology Vocabulary ▪ New Madrid Mind Map activity ▪ Richter Scale demos and activity ▪ Seismic waves demo & diagram activity ▪ Elastic Rebound lab ▪ MI EQ timeline activity ▪ Find the epicenter activity ▪ Design and EQ building activity ▪ Great San Francisco EQ slide show and map ▪ Daily USGS EQ Report Warm-up activity ▪ Disaster home investigation activity ▪ Seismology Jeopardy 	<ul style="list-style-type: none"> ▪ New Madrid article ▪ Richter Scale overheads ▪ Seismic slinky ▪ San Francisco slides ▪ Livin' on the Fault Line DVD ▪ Elastic rebound lab supplies ▪ EQ building supplies ▪ EQ shake table ▪ Locating epicenters map and seismograms ▪ MI EQ articles and graph paper ▪ Seismic wave animations ▪ Tsunami DVD ▪ Landslide DVD 	<ul style="list-style-type: none"> ▪ New Madrid mid maps ▪ EQ building models and designs ▪ Find the epicenter maps ▪ Richter Scale quiz ▪ Seismic wave quiz ▪ Seismology test

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December – 2 nd two weeks / January	Topic: Volcanology	Vocabulary: <ul style="list-style-type: none"> ▪ Caldera ▪ Cinder Cones ▪ Composite Cones or Strato-volcanoes ▪ Crater ▪ Felsic Lava ▪ Fissures ▪ Hot spots ▪ Lo ▪ Lava ▪ Mafic Lava ▪ Magma ▪ Shield Cones ▪ Tephra or Pyroclastic Material ▪ Vent ▪ Volcanic Ash ▪ Volcanic Bombs ▪ Volcanic Dust ▪ Volcanism ▪ Volcano 	<ul style="list-style-type: none"> ▪ Analyzing lava flows ▪ Analyze how science and society interacts ▪ Making topo maps ▪ Identify common volcanic rocks 	<ul style="list-style-type: none"> ▪ Explain how to use the distribution of volcanoes to locate and determine the types of plate boundaries ▪ Describe how the sizes of volcanoes and volcanic eruptions are measured or characterized ▪ Describe the effect of volcanoes on humans ▪ Explain how the chemical composition of magmas affects the geometry, structure, and explosivity of volcanoes ▪ Explain how volcanoes change the atmosphere, hydrosphere, and other earth systems ▪ Describe the 3 major types of volcanoes and their relationship to the Ring of Fire ▪ Describe how volcanic eruptions could result in significant climate change 	<ul style="list-style-type: none"> ▪ Scientific Reflection and Social Implications (E1.2) ▪ Earthquakes and Volcanoes (E3.4) ▪ Basic Plate Tectonics (E3.p3) ▪ Climate Change – Volcanic Eruptions (E5.4) 	<ul style="list-style-type: none"> ▪ Volcanology vocabulary ▪ Volcano diagram activity ▪ Stratovolcano model activity ▪ Volcano record sheet and map warm-up ▪ Mt. St. Helens slide show and map activity ▪ Dante’s Peak analysis activity ▪ Lava flow lab ▪ Yellowstone NP slideshow and outline activity ▪ Geyser model demo ▪ Contour line demos and volcano map lab ▪ Volcanic cones organizer ▪ Vulcanology Jeopardy 	<ul style="list-style-type: none"> ▪ Pompeii DVD ▪ USGS Stratovolcano model sheets ▪ Volcanic cone models ▪ Volcanic rock specimens ▪ Yellowstone Tales DVD ▪ Yellowstone slides ▪ Mt. St. Helens slides ▪ Topo map overheads ▪ Volcanic cone map contour boxes ▪ Volcano Diagram Ppt ▪ Volcano Hazards Ppt ▪ Volcano Music DVD ▪ Burning sulfur DVD 	<ul style="list-style-type: none"> ▪ Volcano quiz ▪ Volcanic Cones quiz ▪ Vulcanology test

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January – 2 nd two weeks / February	Topic: Geology	Vocabulary: <ul style="list-style-type: none"> ▪ Crystal ▪ Density ▪ Extrusive ▪ Hardness ▪ Igneous ▪ Inorganic ▪ Intrusive ▪ Luster ▪ Mineral ▪ Rocks ▪ Sediments ▪ Sedimentary ▪ Metamorphic ▪ Breccia ▪ Stratification ▪ Metamorphism ▪ Ore ▪ Vein ▪ Gem ▪ Geology ▪ Outcrop 	<ul style="list-style-type: none"> ▪ Identifying common rock-forming minerals ▪ Growing crystal ▪ Recording data ▪ Reading a geological map ▪ Making a flow chart 	<ul style="list-style-type: none"> ▪ Explain how solis and sediments form ▪ Explain the origin of MI landforms ▪ Explain the rock cycle ▪ Explain the origin of igneous, metamorphic and sedimentary rocks ▪ Explain how the size and shape of grains in sedimentary rock indicate the environment of formation and deposition ▪ Explain how the crystal sizes of igneous rocks indicate the rate of cooling ▪ Describe how iron ore is made into steel 	<ul style="list-style-type: none"> ▪ Advanced rock cycle (E3.1) ▪ Landforms and soils (E3.p1A, E3.p1B) 	<ul style="list-style-type: none"> ▪ Geology vocabulary ▪ Rock cycle activity ▪ Is it a Mineral? Lab ▪ Diamonds are Forever music DVD ▪ Mr. Mohs lab ▪ MI basin slide show and map activity ▪ Potato core samples ▪ Odyssey of Atom X flow chart activity ▪ 90% Nine minerals Speleothem sim lab ▪ Iron or concentration ▪ Mackinac Bridge slide show and diagram ▪ Halite Cystal project ▪ Geology Jeopardy ▪ Buries treasure questions ▪ Gold panning lab ▪ MI's longest cave ▪ Blank Periodic Table 	<ul style="list-style-type: none"> ▪ 90% Nine mineral collections ▪ Diamond facts Ppt ▪ UV Mineral collection & UV light ▪ Death of Floyd Collins music DVD ▪ Diamonds are Forever music DVD ▪ Gold sand and gold pans DVD ▪ Speleothem lab supplies ▪ Iron ore kits ▪ Mackinac Bridge slides ▪ MI basin slides ▪ Mr. Mohs Ppt ▪ Flint and steel ▪ Burning magnesium DVD ▪ Element song DVD 	<ul style="list-style-type: none"> ▪ 90% Nine Mineral quiz ▪ Periodic Table warm-ups ▪ MI basin quiz ▪ Geology test

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February – 2 nd two weeks / March	Topic: Paleontology	Vocabulary: <ul style="list-style-type: none"> ▪ Absolute Age ▪ Era ▪ Fossil ▪ Geologic Column ▪ Half-life ▪ Hydrocarbon ▪ Index Fossil ▪ Law of Cross-cutting Paleontology ▪ Period ▪ Petrification ▪ Principle of Uniformitarianism ▪ Relationships ▪ Law of Superposition ▪ Relative Age ▪ Stratification ▪ Trace Fossil ▪ Unconformity 	<ul style="list-style-type: none"> ▪ Making inferences ▪ Using an ID key ▪ Identifying common MI fossils ▪ Reading a geologic column 	<ul style="list-style-type: none"> ▪ Describe the process of radioactive decay ▪ Explain how radioactive elements are used to date the rocks that contain them ▪ Relate major events in the history of the earth to the geologic time scale ▪ Describe how index fossils can be used to determine time sequence ▪ Describe a sequence of geologic events using relative age dating principles 	<ul style="list-style-type: none"> ▪ Earth History and Geologic Time (E5.3) ▪ Geologic Dating (E5.3x) 	<ul style="list-style-type: none"> ▪ Fossil Analysis lab ▪ Index fossil lab ▪ Grand Canyon slide show and diagram ▪ MI Paleozoic Seas lab ▪ Coal Formula ▪ K-T Boundary Reading ▪ Secrets of the Cz Bogs slide show and outline activity ▪ Radioactive Decay lab ▪ Peleo Jeopardy ▪ Inference activity ▪ Dino Inference Pyramid activity ▪ Geologic Time activity ▪ Warm-up question activity ▪ What is a Dino? 	<ul style="list-style-type: none"> ▪ Fossil specimens ▪ Index fossil kits ▪ Grand Canyon slides ▪ MI Pz fossil kits ▪ Coal Formula Ppt ▪ Dark as a Dungeon music DVD ▪ Allosaurus DVD ▪ Super Cros DVD ▪ Cenozoic Bogs slides ▪ Fossil Types Ppt ▪ K-T boundary Ppt ▪ Geologic Time card sets ▪ Grand Canyon Sunrise music DVD ▪ Geologic ordering overheads ▪ Dinosaur Ppt ▪ Triassic DVD ▪ Geiger Counter 	<ul style="list-style-type: none"> ▪ Geologic Time quiz ▪ Warm-up Record sheet ▪ Paleontology test

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March – 2 nd two weeks / April	Topic: Glaciology	Vocabulary: <ul style="list-style-type: none"> ▪ Arete ▪ Cirque ▪ Continental Ice Sheet ▪ Crevasse ▪ Drumlin ▪ Erratic ▪ Esker ▪ Glacial Drift ▪ Glacier ▪ Horn ▪ Ice Age ▪ Ice Wedging ▪ Iceberg ▪ Kettle ▪ Moraine ▪ Outwash Plain ▪ Snowfield ▪ Terminal Moraine ▪ Till ▪ Valley Glacier 	<ul style="list-style-type: none"> ▪ Reading a bathymetric map ▪ E-D modeling ▪ Reading a weather map ▪ Graphing data 	<ul style="list-style-type: none"> ▪ Describe how glaciers have affects MI's landscape ▪ Explain what happens to the lithosphere when an ice sheet is removed ▪ Explain the formation of the Great Lakes ▪ Explain the natural mechanism of the greenhouse effect ▪ Explain how the current melting of the ice caps can impact the climatic system ▪ Describe evidence that implies climates were colder at times in the past ▪ Explain the Milankovitch Theory of ice ages 	<ul style="list-style-type: none"> ▪ Water Cycle (E4.p1) ▪ Glaciers (E4.p3) ▪ Climate Change (E5.4) 	<ul style="list-style-type: none"> ▪ Glaciology vocabulary ▪ Glacier Girl music DVD ▪ Iceman Reading ▪ Yosemite slide show and outline activity ▪ Valley glacier features diagram and lab ▪ Ice age clues slide show and map activity ▪ Ice Cream glacier recipe and sample ▪ Ice age flip diagram ▪ Lake MI bathymetry e-D model lab ▪ Sand Dune poster activity ▪ CO2 graph activity ▪ Weather map activity ▪ Daily weather record activity ▪ Yosemite Glaciers reading ▪ Weather watching ▪ Glaciology Jeopardy 	<ul style="list-style-type: none"> ▪ Iceman Ppt ▪ Glacier Girl DVD ▪ Yosemite slides ▪ Lake MI lab supplies ▪ Modeling clay ▪ Ice Age clues slides ▪ Rise and Fall of the Great Lakes DVD ▪ Ice cream and supplies ▪ Sand Dune posters ▪ CO2 data and graph paper ▪ Weather maps ▪ Great Lakes Ppt ▪ Our Changing World music DVD ▪ Valley Glacier Ppt ▪ Weather watching slides 	<ul style="list-style-type: none"> ▪ Sand Dune poster quiz ▪ Weather record warm-ups ▪ Glaciology test

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April - 2 nd two weeks / May	Topic: Astronomy II	Vocabulary: <ul style="list-style-type: none"> ▪ Absolute Magnitude ▪ Apparent Magnitude ▪ Astronomical Unit ▪ Aurora ▪ Binary Stars ▪ Circumpolar ▪ Constellations ▪ Doppler Effect ▪ Galaxies ▪ Light-years ▪ Moon ▪ Nebula ▪ Nuclear Fusion ▪ Parallax ▪ Planets ▪ Red Shift ▪ Solar Wind ▪ Solar System ▪ Spectroscope ▪ Star ▪ Supernova 	<ul style="list-style-type: none"> ▪ Constellation ID ▪ Graphing data ▪ Mind mapping ▪ Reading sky maps ▪ Scientific sorting ▪ Scientific investigation 	<ul style="list-style-type: none"> ▪ What is our location in the Universe? ▪ How do stars evolve? ▪ What is the difference between astronomy and astrology? ▪ How can we tell the universe is expanding? ▪ How is a light year used as a measurement of distance? 	<ul style="list-style-type: none"> ▪ Sky Observations (E5.p1) ▪ Earth in Space (E5.1) ▪ The Sun (E5.2) ▪ Stellar Evolution (E5.2x) 	<ul style="list-style-type: none"> ▪ Where am I? ▪ Space weather record activity ▪ Experimental Beads project ▪ Stellar Evolution concentration activity ▪ Cosmos mind map ▪ History of the Milky Way ▪ Galaxy sorting lab ▪ Constellation map ▪ Constellation slides ▪ The Sun diagram ▪ Frequency and wavelength chart ▪ Observatory field trip ▪ Expanding Universe 	<ul style="list-style-type: none"> ▪ Where am I? Ppt ▪ UV beads and pipe cleaners ▪ Spectrum overhead ▪ Star Evolution cards ▪ Redshift animation ▪ Cosmos reading and video clip ▪ Galaxy photo kits ▪ Sun model ▪ Milky Way overheads, posters and model ▪ Why does the sun shine? DVD and 3-D glasses ▪ Supernova DVD ▪ Horoscope DVD ▪ Constellations DVD ▪ Universe balloon ▪ H-R Diagram overheads ▪ Doppler Effect balls and sound files ▪ Celestial sphere model 	<ul style="list-style-type: none"> ▪ Space weather record warm-ups ▪ Constellation quiz ▪ Astronomy II test ▪ Experimental Bead project