**Earth Science Syllabus- Mr. Valle 2017-18**

**Quarter 1**

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| Week of:  | Chapter | Topics |
| July 31-Aug 4 | 1. Intro to Earth Science
 | What is Earth Science?Science as a Process |
| Aug 7-11 | 1. Earth as a System
 | Unique PlanetEcology |
| Aug 14-18 | 1. Models of the Earth
 | Mapping the Earth’s SurfaceTopography |
| Aug 21-25 | 1. Earth Chemistry
 | MatterCombinations of Atoms |
| Aug 28- Sep 1 | 1. Minerals of Earth’s Crust
 | What is a Mineral? |
| Sep 5-8 | 1. Rock
 | Rock Cycle, Igneous, Metamorphic, Sedimentary |
| Sep 11-15 | 7- Resources and Energy | Mineral ResourcesRenewable vs Non-Renewable |
| Sep 18-22 | Biomes | Organisms on the EarthProject Intro |
| Sep 25-29 | NA | Exam review, Exam |

**Quarter 2**

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| Week of:  | Chapter | Topics |
| Oct 16-20 | Biomes | Land Use, Habitat, Climate |
| Oct 23-27 | 8- The Rock Record | Determining AgeFossil Record |
| Oct 30- Nov 3 | 9- A View of Earth’s Past | Geologic Time, Pre-Cambrian, Paleozoic, Mesozoic, Cenozoic |
| Nov 6-9 | 10- Plate Tectonics | Continental Drift, Plate Tectonics |
| Nov 13-17 | 11- Deformation of the Crust | How rock DeformsHow Mountains Form |
| Nov 27- Dec 1 | 12- Earthquakes | How they happenSeismic waves |
| Dec 4-8 | 13- Volcanoes | EruptionsRing of Fire |
| Dec 11-15 | 14- Weathering and Erosion | Weathering, Erosion, Soil |
| Dec 18-22 | NA | Exam review, Exam |

**Quarter 3**

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| Week of:  | Chapter | Topics |
| Jan 9-12 | 15- River Systems-  | Water Cycle, Erosin and Deposition |
| Jan 16-19 | 16- Groundwater | Groundwater, Chemical Weathering |
| Jan22-26 | 17- Glaciers | Glaciation, Ice Ages |
| Jan 29-Feb 2 | 18- Erosion by Wind and Waves | Wind and Wave Erosin, Coastlines |
| Feb 5-9 | 19- The Atmosphere | Solar Energy, Circulation |
| Feb 12-16 | 20- Water in the Atmosphere | Humidity, Clouds, Precipitation |
| Feb 20-23 | 21- Weather | Air Masses, Fronts, Forecasting |
| Feb 26- Mar 2 | 22- Climate | Climate Zones, Climate Change |
| Mar 5-Mar 9 | NA | Exam review, Exam |

**Quarter 4**

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| Week of:  | Chapter | Topics |
| Mar 26-29 | 23- Ocean Basins | Water Planet, Ocean Floor |
| Apr 2-6 | 24- Ocean Water | Properties of water, Life in the Oceans |
| Apr 9-13 | 25- Movements of the Ocean | Waves, Tides, Currents |
| Apr 16-20 | 26- Studying Space | Viewing the Universe, Movements of Earth |
| Apr 23-27 | 27- Planets of the Solar System | Formation of the Solar System, Planets |
| Apr 30-May 4 | 28- Minor Bodies of the Solar System | Moons, Comets, Asteroids, Meteoroids |
| May 7-11 | 29- The Sun | Structure, Solar Activity |
| May 14-18 | 30- Stars, Galaxies, and the Universe | Stellar Evolution, Big Bang Theory, Milky Way |
| May 21-25 | NA | Exam review, Exam |