

**Bloomington Montessori Cultural Curriculum Scope and Sequence**

**Ages 3-12**

Updated 2017

	Physical Science	Biology	Geography			History	
			Astronomy	Geology	Cartography	Past and Present	Notation of Time
<b>Primary (ages 3-6)</b>	<ul style="list-style-type: none"> <li>• magnetism</li> <li>• sound</li> <li>• light</li> <li>• heat</li> <li>• electricity</li> <li>• mechanics</li> <li>• friction</li> <li>• gravity</li> <li>• states of matter (solid, liquid, gas)</li> <li>• chemistry</li> </ul>	<ul style="list-style-type: none"> <li>• classification of living things</li> <li>• nomenclature (naming the parts of plants and animals)</li> <li>• identification of plants and animals</li> <li>• ecology (stewardship of the Earth)</li> <li>• biome and habitat characteristics</li> </ul>	<ul style="list-style-type: none"> <li>• solar system</li> </ul>	<ul style="list-style-type: none"> <li>• layers of Earth</li> <li>• volcanoes</li> <li>• land and water forms (land, air, water)</li> </ul>	<ul style="list-style-type: none"> <li>• globe</li> <li>• hemispheres</li> <li>• continents</li> <li>• oceans</li> <li>• continent maps (countries and flags)</li> <li>• map skills (cardinal and intermediate directions, mapping)</li> </ul>	<ul style="list-style-type: none"> <li>• before and after</li> <li>• sequencing</li> <li>• timelines</li> </ul>	<ul style="list-style-type: none"> <li>• clocks</li> <li>• seasons</li> <li>• months of the year</li> <li>• days of the week</li> </ul>
<b>Elementary (ages 6-12)</b>	<ul style="list-style-type: none"> <li>• the Scientific Method</li> <li>• magnetism</li> <li>• sound</li> <li>• light</li> <li>• heat</li> <li>• electricity</li> <li>• mechanics</li> <li>• friction</li> <li>• gravity</li> <li>• states of matter (solid, liquid, gas)</li> <li>• chemistry</li> <li>• engineering</li> <li>• atomic diagraming</li> <li>• periodic table of elements</li> <li>• molecule building</li> </ul>	<ul style="list-style-type: none"> <li>• Web of Life and interdependence of the universe</li> <li>• classification and sub-classification of animals (invertebrates, vertebrates)</li> <li>• nomenclature (names of parts of animals)</li> <li>• identification of animal species</li> <li>• classification and sub-classification of plants</li> <li>• nomenclature of plants</li> <li>• needs of a plant</li> <li>• processes of plants (photosynthesis, transpiration, respiration)</li> <li>• identification of plant species, cells and their parts</li> <li>• study of the human body and its systems</li> <li>• characteristics of biomes</li> <li>• adaptations to biomes</li> <li>• stewardship of the Earth</li> <li>• evolution scientists (Darwin, Mendel)</li> <li>• DNA</li> <li>• microscope studies</li> </ul>	<ul style="list-style-type: none"> <li>• formation of galaxies</li> <li>• birth and death of stars</li> <li>• solar system</li> <li>• Sun (parts of the Sun, solar energy)</li> <li>• illumination of the Earth by the Sun (day and night, seasons, equinoxes and solstices, climactic zones)</li> <li>• layers of the Earth</li> <li>• erosion</li> <li>• layers of the atmosphere</li> <li>• types of clouds</li> <li>• weather</li> <li>• wind</li> <li>• water cycle</li> <li>• phases of the moon</li> <li>• layers of the ocean</li> <li>• ocean waves and tides</li> <li>• economic geography</li> <li>• interdependence of people in a society (taxes, production and consumption, trade and commerce)</li> </ul>	<ul style="list-style-type: none"> <li>• layers of the Earth</li> <li>• volcanoes</li> <li>• continents and oceans</li> <li>• land and water forms</li> <li>• rocks and minerals</li> </ul>	<ul style="list-style-type: none"> <li>• parts of a globe</li> <li>• latitude and longitude</li> <li>• physical geography of continents</li> <li>• political geography of continents (countries, cities, flags)</li> <li>• parts of a map (compass rose, key, scale)</li> <li>• interpreting maps</li> <li>• making maps</li> <li>• using a grid</li> </ul>	<ul style="list-style-type: none"> <li>• the Story of the Universe</li> <li>• the Big Bang Theory (theory of how the universe began)</li> <li>• the Timeline of Life (evolution of life on Earth)</li> <li>• the Story of Humans (evolution of early humans to modern man)</li> <li>• fundamental needs of humans</li> <li>• human adaptation</li> <li>• nomadic, agricultural and urban phases of human history</li> <li>• the Story of Language (evolution of the alphabet)</li> <li>• the Story of Numbers (evolution of numbers and math)</li> <li>• human migration</li> <li>• ancient civilizations around the world</li> <li>• timeline of the New World</li> <li>• Native American studies</li> <li>• Vikings</li> <li>• study of exploration and colonization</li> <li>• US history and government</li> <li>• major religions of the world</li> </ul>	<ul style="list-style-type: none"> <li>• days of the week</li> <li>• months of the year</li> <li>• seasons</li> <li>• parts of a year</li> <li>• reading analog and digital time</li> <li>• timelines</li> <li>• BCE and CE years</li> </ul>