

Wayland-Cohocton Central School District

Earth Science

Science Curriculum Map Overview

***Based on MST Standards and NYS Earth Science Core Curriculum Documents

Module	Skills / Topics	Approximate Weeks of Study	Assessment
Introduction to Earth's Changing Environment	<ul style="list-style-type: none"> *Areas of Earth Science Study *Observation *Measurement *Density *Rate of Change * Graphing *Types of Changes *Equilibrium 	3 weeks	Pre-assessment #372350 Summative #366484
Measuring the Earth	<ul style="list-style-type: none"> *Earth's shape *Spheres of the Earth *The coordinate system *Determining location *Fields *Topographic maps 	2.5 weeks	

Earth in the Universe	<ul style="list-style-type: none"> *Early beliefs *Size and Scale *Origin of the universe *Structure of the universe *Stars *The Solar System *Scale model of the Solar System *Two basic motions *Ellipse *Gravitation *Planet Orbits 	2 weeks	
Earth Motions	<ul style="list-style-type: none"> *Two basic motions *Apparent motion of celestial objects *Models of the solar system *Motions of the Moon *Apparent path of the Sun *Evidence of Earths motions 	3 weeks	
Energy in Earth Processes	<ul style="list-style-type: none"> *Energy *Energy transfer *Heat flow *Transformation of wavelength *Temperature and heat *Specifc heat *Earths energy supply *Energy generation 	2 weeks	
Insolation and the Seasons	<ul style="list-style-type: none"> *Insolation *Insolation at the Earths surface *The greenhouse effect *Variations of insolation *Times of max and min temperatures *Radiative balance *Seasons 	2.5 weeks	

Midterm		1 week	
Weather	<ul style="list-style-type: none"> *History of the atmosphere *Weather *Temperature *Air pressure *Wind *Atmospheric moisture *Relative humidity *Air masses *Fronts *Clouds and fronts *The weather map *Weather station models *Properties of the atmosphere *Predicting weather *Weather hazards *Emergency preparedness 	4 weeks	
Water, Energy, and Climate	<ul style="list-style-type: none"> *Water cycle *Climate *Climate patterns *Factors effecting climate *Human affects on climate 	2.5 weeks	

<p>Weathering, Erosion, and Deposition</p>	<ul style="list-style-type: none"> *Weathering *Factors effecting weathering *Soil *Erosion *Streams/running water *Wind *Glaciers *Wind action *Human impact *Deposition *Sediment sorting *The erosional-depositional system *Depositional features 	<p>3 weeks</p>	
<p>Minerals and Rocks</p>	<ul style="list-style-type: none"> *Minerals *Rocks *Ingeous rocks *Sedementary rocks *Metamorphic rocks *Rock Cycle 	<p>2 weeks</p>	
<p>The Earth's Dynamic Crust</p>	<ul style="list-style-type: none"> *Earths interior is layered *Earths crust *Earthquakes *Using the P and S wave chart *Locating an epicenter *Plate tectonics *Earth features resluting from plate tectonics *The rock cycle and plate collisions *Global effects of plate tectonics 	<p>2 weeks</p>	

<p>Earth History</p>	<ul style="list-style-type: none"> *The Early Earth *Relative Age *Correlation *Geologic History from the rock record *Unconformities *Absolute age *Ancient life and evolution 	<p>2 weeks</p>	
<p>Landscape Regions</p>	<ul style="list-style-type: none"> *Landforms *Basic Landscapes *Landscape regions of NYS *Affects of bedrock on landscapes *Landscapes and man *Environmental awareness *Managing resources 	<p>2 weeks</p>	
<p>Regents Review</p>		<p>2 weeks</p>	