

***The Story of Ithaca***  
**Trimester 1 Geology Curriculum Map**

<b>Learning Targets and Standards</b>	<b>Content Sequence</b>	<b>Assessments</b>
<p>I can explain what earth system science is, and how it done.</p> <p><b>Standards</b> 1, 6</p> <p>I can use current landscape features to tell the story of Ithacas geologic past. This includes: uplift, erosion and other topographic features, glacial and stream deposition, bedrock correlation, and plate tectonics.</p> <p><b>Standards</b> 6, 7 Standard 4, indicators: 1.2 g-j, 2.1a, j-w, 3.1</p>	<p><b>Introduction</b>            What is science stations            Mastermind            Bike Analysis            Biosphere 3 Lab</p> <p><b>Guide Question: Why is Ithaca Gorges?</b>            1) Looking for Clues Lab:                - Rock Types + Formation                - Fossils                - Intro to Geologic Time                    -Bedrock correlation and dating</p> <p>2) Sediment Lab                - Why do we have the rocks we do?                - Topo maps and stream patterns</p> <p>3) Snapshots of the Devonian Project                - What was it like here 400 mya?</p> <p>4) Plate tectonics – change over time                - Density lab                - Ithacas tectonic history</p> <p>5) Postcards from the past                - No evidence in the rock record – what happened? How do we know?</p> <p>6) Glacial Evidence – the not so obvious</p> <p>7) The Story of Ithaca – telling Ithacas history through a gorge.</p>	<p><b>Formative:</b>            What is Science Lab            Mastermind Analysis            Bike System</p> <p><b>Summative</b>            Quiz            Analysis, Evaluation, and Skills demonstrated during labs            How to Energize Ithaca Project</p> <p><b>Formative:</b>            - Field Lab Notes            - Bedrock Correlation Analysis            - Sediment Lab Analysis            - ID topographic features of Ithaca</p> <p><b>Summative</b>            Quiz            Snapshots of the Devonian Project</p> <p><b>Formative:</b>            -Density lab            -Should we fear an Earthquake lab – the history of Ithaca            -Earthquake epicenter lab            - Postcards from the past.            - Glacial landscape features ID</p> <p><b>Summative</b>            Quiz            Story of Ithaca Project</p>
<p>I can analyze how the processes of the past impact life in Ithaca.</p> <p><b>Standards</b> 6, 7, Standard 4; indicator 3.1</p>	<p><b>Exploration of Local Resources Use</b>            Water                - Bottled Water Taste Test                - Scarcity                - Evaluating personal use                - Energy source?</p> <p>Natural Gas Drilling            - <b>Fracking Controversy</b></p>	<p><b>Formative:</b>            Water use evaluation            Taste Test Reading Response            Activities on fracking</p> <p><b>Summative:</b>            How should we energize Ithaca?</p>