Science 8 Earth Scope & Sequence

Month	Main Concepts	Time
September	**Intro to Earth Science:** 1. Intro to class procedures, policies, syllabus **Foundations of Earth Science:** 1. Conversions 2. Metric System 3. Scientific Method, Data Analysis, & Lab Reports **Branches of Earth Science & Maps** 1. Determining Location 2. Legends & Scales 3. Maps 4. Topography	1 day 2 weeks 2 weeks
October	**Minerals** 1. Intro to minerals 2. Identifying minerals 3. Mineral Project 4. Mining of minerals **Rocks & Energy** 1. Intro to Rocks 2. Igneous & Sedimentary Rocks 3. Metamorphic Rocks 4. Rock ID Lab 5. Fossil Fuels 6. Alternative Energy	2 weeks 2.5 weeks
November	**Earth's History/Geologic Time** 1. Intro to Geologic Time 2. Structure of Earth 3. Continental Drift 4. Plate Tectonics 5. Crust Deformation	2.5 weeks
December	**Earthquakes** 1. Intro to Earthquakes 2. Earthquake waves 3. Slinky Lab 4. Measuring Earthquakes 5. Earthquakes and Society 6. Earthquake Building Lab	2.5 weeks

January	**Volcanoes** 1. Intro to Volcanoes 2. Lava lab 3. Where Volcanoes Occur 4. Types of Eruptions & Volcanoes 5. Alka-Seltzer lab 6. Volcanic Activity 7. Build a Volcano Project **Weathering, Soil, Erosion** 1. Weathering Notes 2. Weathering Lab 3. Bedrock To Soil 4. Soil Notes 5. Soil Conservation 6. Erosion & Deposition	2.5 weeks 2.5 weeks
February	**Fresh Water** 1. Water Cycle 2. States of Matter of Water 3. Structure & Properties of water 4. Water Stations Lab 5. Drop of Water project 6. Surface Water 7. River Deposits 8. Water Underground 9. Using Water wisely	2.5 weeks
March	**Oceans** 1. Intro to Oceans 2. Properties of Oceans 3. Surface & Currents 4. Deep Currents 5. Density Exploration 6. Tides 7. Waves 8. The Ocean Floor **Atmosphere & Climate** 1. Intro to Atmosphere 2. Layers of Atmosphere 3. Greenhouse Effect & Lab 4. Climate Change 5. Biome Research Project	2 weeks 2 weeks

April	**Weather** 1. Temperature & Relative Humidity 2. Dew Point & Relative Humidity 3. Barometers 4. Measuring Wind 5. Wind-chill Lab 6. Clouds 7. Air masses & Fronts 8. Storms 9. Tornado & Hurricane	2.5 weeks
May	**Astronomy** 1. Intro to Astronomy 2. Studying Space 3. Gravity 4. Stars & Galaxies 5. Sun, Solar System, & Earth 6. Moon Phases 7. Seasons Notes	3 weeks
June	Fun Science Experiments	