Lessons - Small Dome Applications; Astronomy, Geology, Meteorology

Starry Night Small Dome

Primary School Lessons

P1: Night and Day

P2: Going Through a Phase - Moon Phases

P3: Location, Location - Finding Your Way Around the Sky

P4: Myths Around the World - Constellations and Stars Lore

Secondary School Lessons

S1: A Change Of Season

S2: Now You See It, Now You Don't - Solar and Lunar Eclipses

S3: Welcome to the Neighborhood - Overview of the Solar System

S4: Welcome to the Neighborhood - The Planets

S5: Moving Out - The Motion of the Planets

S6: Big Macs - Meteors, Asteroids and Comets

Advanced School Lessons

A1: A Calendar in the Stars - Seasonal Constellations

A2: Star light, Star bright - The properties and life cycle of Stars

A3: Our Little Island - The Milky Way Galaxy

Layered Earth Geology Small Dome

Unit A: The Solid Earth

A1: Earth as a System

A2: Earth's Layered Structure

A3: Oceans and Continents

Unit B: Plate Tectonics

B1: Continental Drift

B2: Seafloor Spreading and Paleomagnetism

B3: The Theory of Plate Tectonics

Unit C: Minerals and Rocks

C1: Minerals - Building Blocks of Rocks

C2: The Rock Cycle

C3: Igneous, Sedimentary and Metamorphic Rocks

C4: Weathering and Soil Formation

Unit C: Atmospheric Circulation

C1: Global Wind Patterns

C2: The Jet Stream

C3: Global Winds and Ocean Currents

Unit D: Weather

D1: The Water Cycle

D2: Weather Patterns – Pressure Systems

D3: Forecasting the Weather

D4: Extreme Weather: Hurricanes and Tornadoes

Unit E: Climate

E1: Climate vs. Weather

E2: Factors Affecting Climate

E3: World Climate Zones

Unit F: Climate Change

F1: Paleoclimates: Climates of the Past

F2: Recent Climate Change I

F3: Recent Climate Change II – Past Climates on Earth

F4: Natural Causes of Climate Change I – Solar Output

F5: Natural Causes of Climate Change II

F6: Natural Causes of Climate Change III

F7: Natural Causes of Climate Change IV

F8: Short-Term Climate Change I - El Niño/La Niña

F9: Short-Term Climate Change II

F10: Short-Term Climate Change III

Unit G: Human Activities and Climate Change

G1: Evidence of Climate Change !

G2: Evidence of Climate Change II

G3: Evidence of Climate Change III – Arctic Sea Ice

G4: Evidence of Climate Change IV - Sea Levels

G5: Evidence of Climate Change V - Land Ice

G6: Climate Change and the Future I

G7: Climate Change and the Future II

G8: Climate Change and the Future III

Unit D: Shaping The Earth

D1: Shaping Earth's Surface

D2: Mass Movement

D3: Water and Ice Landforms

D4: Wind Landforms

Unit E: Earthquakes

E1: Earthquakes and Faults

E2: Earthquakes and Waves

E3: The Strength of Earthquakes

E4: Seismic Waves and the Earth's Interior

E5: Living with Earthquakes

Unit F: Volcanoes

F1: Formation of Volcanoes

F2: Types of Volcanoes

F3: Living with Volcanoes

Unit G: Geologic Time

G1: Age of the Earth

G2: The Geologic Timescale

G3: Catastrophic Events and Mass Extinction

G4: Earth's Future

Layered Earth Meteorology Small Dome (coming soon!)

(tentative lessons)

Unit A: The Atmosphere

A1: Atmospheric Composition

A2: Layers of the Atmosphere

A3: The Ozone Layer

A4: Atmospheric Pressure

Unit B: Earth's Energy Balance

B1: Methods of Heat Transfer

B2: The Reason for the Seasons

B3: The Greenhouse Effect

B4: The Earth's Energy Balance