

Table of Contents

Forward	4
Introduction	6
How to Use the Lesson Plan Template	10
Rubric	13
STEM Vocabulary	14
Big Ideas/Science Concepts	15
Glossary of Terms	16
Next Generation Science Standards	18
Common Core Standards Addressed	19
Water Unit: What is the Importance of Water and the Water Systems to Humans?	28
What is the Water Cycle?	30
How Does Land Erode via Water?.....	34
Can You Save Water?	38
How Are Water and Weather Related?.....	43
Unit Summative Assessment	47
Extension Menu	49
Support and Scaffolding	51
Earth Unit: How and Why Do We Try to Understand Earth?	52
Compost It! How does the Earth Recycle Nutrients?.....	54
What Causes Convection Currents?.....	59
How are Force, Friction, and Earthquakes Interrelated?.....	64
What are Topographic Maps/Longitude and Latitude?	70
Unit Summative Assessment	76
Extension Menu	78
Support and Scaffolding	80
Space Unit: What are the Patterns in the Sky?	81
How Does the Position of the Earth in Relation to the Sun Affect Seasonal Patterns on Earth?.....	83
How Are Moon Phases Like Baseball?.....	88
What is in Space? The Solar System.....	93
What Can We Learn from Star Patterns?	97
Unit Summative Assessment	103
Extension Menu	105
Support and Scaffolding	107
Audience Response Sheet.	108
References	109