

Table of Contents

Lessons

Getting Started

Welcome to Calvert	3
Before You Begin	11
Course Materials	12

Unit 1 - Game of Motion

Project: Game of Motion.....	15
What Is Motion?.....	17
How Can We Change the Way Things Move?.....	37
Pushing Objects.....	61
Show: Game of Motion.....	67
Unit Quiz: Game of Motion.....	74

Unit 2 - How “Wood” Environments Change

Project: How “Wood” Environments Change	77
What Do Plants Need?	80
What Do Animals Need?	99
Where Do Plants and Animals Live?.....	120
Where Can I Live?	139
How Do Plants and Animals Change the Environment?.....	151
Show: How Do Beavers Change the Environment?.....	167
Unit Quiz: How “Wood” Environments Change?	174

Unit 3 - Sun Warms Earth

How Does the Sun Warm Earth?	177
How Can I Protect Myself from the Sun?....	189
Can I Use Energy from the Sun?	204
Unit Quiz: Sun Warms Earth.....	213

Unit 4 - How Can We Observe Weather Patterns?

Project: How Can We Observe Weather Patterns.....	217
How Can We Observe Weather Patterns?... ..	220
How Can We Measure Weather?	240
What Are Some Kinds of Severe Weather?. ..	255
How Can Forecasts Help Us?	277
Show: How Can We Observe Weather Patterns.....	295
Unit Quiz: How Can We Observe Weather Patterns?.....	299

Unit 5 - Earth’s Resources

What Are Natural Resources?.....	303
How Can We Save Natural Resources?.....	328
Reduce, Reuse, Recycle!.....	348
Reuse a Cereal Box.....	359
Unit Quiz: Earth’s Resources	366

Appendix*

Assessment/File Upload Form	369
Project Rubrics	371

Worksheets

Design Shade.....	375
Make a Ramp	377
Model Thunder.....	379
Observing the weather (My 5-Day Forecast)	382
Pushing Objects.....	384
Reuse a Cereal Box.....	386
The Sun’s Heat.....	389

*The Assessment/File Upload Form and many worksheets in the appendix will be used multiple times throughout this course. Please make additional copies of these pages.