



# RED BUTTE GARDEN BOTANY BINS

## Patterns & Partnerships – Materials List

Lesson Plan Binder  
8 Lessons

Pull-Out Tray  
Hand Lenses – 33  
Scientist Trading Cards  
USB

Increment Borer Drawer  
Increment Borer – 1 with 3 parts (Tube, Knob, Drill)  
Glue (at least 1/4th full) \*Expendable Item\*  
Sandpaper (at least 4 sheets) \*Expendable Item\*  
Wood blanks (at least 4) \*Expendable Item\*

Tree Cookies Bag  
Wood Cookies – 7 (psme, pico, juos, quga, abla, pien, potr)  
Labels – 7

Large Tree Cookie – 1

Bark Beetle Bag  
Log – 1  
Bark Beetle Vial – 1  
Bark Beetle Vial Pouch – 1

Fauna Photos – 65  
Fauna Photos – 64  
Fauna Photo Checklist

Twine Bag – 30 Pieces

Rikers – 41

1	<i>Achillea millefolium</i>	21	<i>Lupinus argenteus</i>
2	<i>Antennaria anaphaloides</i>	22	<i>Mimulus guttatus</i>
3	<i>Apocynum androsaemifolium</i>	23	<i>Mitella pentandra</i>
4	<i>Aquilegia flavescens</i>	24	<i>Pedicularis groenlandica</i>

5	<i>Artemisia tridentata</i>	25	<i>Penstemon rydbergii</i>
6	<i>Carex rupestris</i>	26	<i>Phacelia hastata</i>
7	<i>Castilleja</i> species mix	27	<i>Potentilla fruticosa</i>
8	<i>Ceanothus velutinus</i>	28	<i>Prunus virginiana</i>
9	<i>Cirsium arvense</i>	29	<i>Pyrola asarifolia</i>
10	<i>Corallorhiza maculata</i>	30	<i>Ribes montigenum</i>
11	<i>Cornus sericea</i>	31	<i>Rosa nutkana</i>
12	<i>Cynoglossum officinale</i>	32	<i>Rudbeckia occidentalis</i>
13	<i>Delphinium nuttallianum</i>	33	<i>Salix planifolia</i>
14	<i>Dodecatheon alpinum</i>	34	<i>Sedum lanceolatum</i>
15	<i>Equisetum arvense</i>	35	<i>Trollius albiflorus</i>
16	<i>Eriogonum species mix</i>	36	Lichen
17	<i>Erythronium grandiflorum</i>	37	Organism group 1
18	<i>Geranium viscosissimum</i>	38	Organism group 2
19	<i>Ipomopsis aggregata</i>	39	Organism group 3
20	<i>Leucanthemum vulgare</i>	40	Organism group 4

## Addendum Folder

### L1 - 4 Items

- Taxonomic Levels and Traits - 1
- Mountain Organisms - Patterns & \_\_\_\_\_ - 2
- Mountain Organisms - Patterns & Traits - 1

### L2 Photos - 32 Items

- Canine Photos - 31
- Canine Photo Checklist - 1

### L2 - 4 Items

- The Canine Conundrum - Teacher Hint Table - 1 (stapled together)
- The Canine Conundrum - Types of Traits - 1
- Inherited Traits & Plant Breeding - 1

### L3 - 3 Items

- Utah Mountain Ecosystem Zones - 1
- Traits and Survival in the Mountain Ecosystem - 1
- Patterns in Plants - The Why of Traits - 1

### L4 - 5 Items

- Tree Ring Diagram - 1
- Basic Tree Anatomy - 1
- Annual Precipitation - 1
- Annual Temperature - 1
- Reading Rings - Resources and Survival - 1

### L5 - 3 Items

- Ecosystem Interactions - Utah Mountains - 1
- Ecosystem Interactions - Across the World - 2

### L6 - 3 Items

- Trophic Levels Energy and Matter - Blank - 1
- Trophic Levels Energy and Matter - 1

**Fueling the Web – Modeling Matter and Energy – 1**

**L7 – 7 Items**

**Trees and Bark Beetles – 1**

**Tree Mortality – 1**

**Bark Beetle Life Cycle – 1**

**Bark Beetle Data Sheet – 1**

**Precipitation Chart – 1**

**Minimum Temperature Chart – 1**

**Maximum Temperature Chart – 1**

**L8 – 3 Items**

**Fires and Forests – Evaluating Solutions – 2**

**Fires and Forests – Potential Solutions – 1**

**L8 – 22 Items**

**Smokey Bear Comic – 16**

**Wildland Fire in the U.S. – 6**

**Sci Card – 1 Item**

**Discover Scientists Across America – 1**