



Planting for a Rainy Day – Materials List

Lesson 1: Estivation, Xerophytes, and Ephemerals Investigative Question:

- [Lesson 1 Slides PowerPoint](#)
- [Lesson 1 Slides PDF](#)
- [Lesson 1 Slides Google](#)
- [Water Cycle Diagram](#) (optional as refresher)
- [Water Cycle Teacher Answers](#)
- [Thirsty Plant Worksheet](#)
- Plastic zip lock bag per student
- [Teacher Page – Arizona Adaptations & Species Matches](#)
- APW Materials left for class to utilize: Game & Student Handbook
 - **Adaptation Game** laminated & ready: (Set of [Arizona Adaptations Cards](#) & Set of [Arizona Species Cards](#) included)
 - **Student Handbook per group which includes:**
 - Copies of [Arizona Maps](#)
 - [Background Info on Arizona Plant and Animal Adaptations](#)
 - [Arizona Biomes](#)
 - [Entire PDF of Estivation, Xerophytes and Ephemerals Lesson](#) (optional)

Materials Needed for **optional** Watershed Activity:

- [Instructional Video Link](#)
- Spray bottles
- 2 pieces of 8-1/2 by 11 white paper per student or two pieces of large poster paper/butcher paper per group (scrap paper can be used if blank on one side)
- Water soluble markers (green, blue, brown, red, purple)
- Scotch Tape

Lesson 2: Smart Landscape Part A:

- [Lesson 2 Part A Slides PowerPoint](#)
- [Lesson 2 Part A Slides PDFs](#)
- [Lesson 2 Part A Google Slides](#)
- Spray Bottle
- Colored pencils – 1 per group
- Rulers
- [Student notes/observations pages](#) - one per student/or group
- APW Materials left for class to utilize – Fake plants & Student Handbook
 - **Roof Demo Kit:** (aluminum pan, soil, clay, miniature house)



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- **Student Handbook per group which includes:**
 - [Background Info on Water Efficient Landscapes](#)
 - [Rubric for Smart Landscape Design](#)
 - [Images of Landscapes before and After](#)
 - [Native Plants for Water-Efficient Landscapes](#) Student Copy Pages
- [Storm to Shade Video of xeriscape garden](#) - play at beginning of lesson
- [Storm to Shade Green Infrastructure](#) – play at end of lesson
- [Storm to Shade Infographic for Green Infrastructure](#)

Lesson 2: Smart Landscape Part B:

- [Lesson 2 Part B PowerPoint](#)
- [Lesson 2 Part B Google](#)
- [Lesson 2 Part B PDF](#)
- Colored pencils – 1 per group
- Rulers
- **Student Handbook per group which includes:**
 - [Background Info on Water Efficient Landscapes](#)
 - [Rubric for Smart Landscape Design](#)
 - [Images of Landscapes before and After](#)
 - [AZ Climate Data](#)
 - [Arizona Physiographic Provinces Map](#) per group
 - [Steps for Designing Your Water Efficient Landscape](#) Student Copy Pages
 - [Sample Landscape Design: Step 1 and 2](#)
 - [Rainwater Harvesting Calculations Student Pages](#)
 - [Native Plants for Water-Efficient Landscapes](#) Student Copy Pages
- Entire PDF of [Smart Landscapes Lesson](#) (optional)

Lesson 2: Smart Landscape Wrap Up & Sustainability:

- [Lesson 2 Wrap Up & Sustainability PowerPoint](#)
- [Lesson 2 Wrap Up & Sustainability Google](#)
- [Lesson 2 Wrap Up & Sustainability PDF](#)
- [Rubric for Smart Landscape Design](#)
- [Student Sustainability Worksheets](#) (optional)
- [Sustainability Worksheets Answers for Teachers](#)