



Lesson 2 – Smart Landscapes – Wrap Up & Sustainability

Investigative Question:

- How can you harvest rainwater to transform an impermeable plot of land on your school grounds into a water-efficient oasis?

Slides: [Lesson 2 Wrap Up & Sustainability PowerPoint](#)
[Lesson 2 Wrap Up & Sustainability Google](#)
[Lesson 2 Wrap Up & Sustainability PDF](#)

Materials Needed:

- [Rubric for Smart Landscape Design](#)
- [Student Sustainability Worksheets](#) (optional)
- [Sustainability Worksheets Answers for Teachers](#)

Wrap Up: (expected to take a class period)

1. After each group has finished their landscape designs, discuss the answers to the calculations on the Rainwater Harvesting worksheet (answers below).
2. Have each group share their landscape design and have the class vote on who should win, focusing on items in the rubric. Please feel free to send pictures of the final designs.
3. Discuss the activity. What were the challenges presented by the different areas they chose around the school? Are there concepts that they learned through doing the activity that they could apply at home?

Rainwater Harvesting Calculations *Answer Key*

Roof Square Footage:

SCHOOL #1 = 36,800 square feet

SCHOOL #2 = 154,400 square feet

SCHOOL #3 = 85,950 square feet

You can also wrap up the unit with sustainability and stewardship slides provided here:

This will help students understand their **water footprint** and what is meant by **direct and indirect water use**. This all contributes to being a member of our greater community and what kind of future we want to build.