Community Waters Science Unit

4th grade

COMMUNICATING OUR RESULTS

Community Waters Science Unit

Lesson 11

COMMUNICATING OUR RESULTS

Focus Question: What should we know about the stormwater solution your team tested?

Learning Target: I can share with others about my groups' stormwater solution and why it might or might not work.

EXPLORE AND INVESTIGATE

In your engineering team, **create an explanation of the solution** you developed. Your job **is not** to convince others that the solution you tested is the right or wrong solution; it **is** to give people all the information they need to be able to consider the **advantages and disadvantages** of your solution.

If creating a poster, be sure to include:
- A diagram or image of the current problem area (like a "before" picture). It should show:
  - Surfaces in the area that contribute to stormwater runoff.
  - Arrows showing how water moves through the site when it rains.
- Diagram or image of solution (like an "after" picture), showing the proposed solution and its features.
- Key (if using symbols in diagram)
- Claim about effectiveness of solution with at least **two pieces of evidence.**

EXPLORE AND INVESTIGATE

Additional things to include:

- The criteria for success and constraints that were considered.

- A description of the solution you tested and how it would work to help slow or absorb stormwater.

- How the solution would address each of the criteria and constraints.

- Why you chose the solution to test in the first place (using evidence from multiple sources).

- Stakeholder needs for the site.

CREATE AND PRACTICE THE PRESENTATION

You will have approximately 5 minutes to present. During the presentation, your group could share:

- An introduction to the problem – what's the issue and why does it matter?
- How you researched solutions and stakeholders
- Description of criteria for success and constraints
- Description of the solution
- Results of testing the solution or the CER

Congratulations!

You completed the unit and learned about engineering and stormwater!