



Community Waters Science Unit

4th grade

Comparing solutions

Community
Waters
Science Unit:
[Lesson 10](#)



Comparing Solutions

Focus Question: How effective is the solution my group modeled?

Learning Target: I can make a claim about my solution and support it with evidence and reasoning.



Engineering Team Discussion & Share out

Share your data with the class!

In your engineering team, discuss:

- Do we feel that our solution successfully reduced the amount of runoff?
- What would be helpful for other teams to know?



Analyze Team Data

- How do the different results compare?
- Were the original models similar enough to each other?
- Did everybody control the same variables?
- Were there enough trials of each solution?



In the Class Data Table:

- What do you notice?
- What does the data mean to us?
- What would you want to do to analyze the data?

Make a claim from evidence

Write a conclusion about the solution your group modeled. Make a claim about the question "**How effective is the solution my team modeled?**"

Your claims should include:

1. the data you gathered when you tested your model.
2. other evidence from what you have read or experienced that supports your claim.

1. **Claim:** A general statement about the effectiveness of the solution.
2. **Evidence:** possibilities to include
 - Data from your tests of the solution.
 - Reference to where the solution has worked elsewhere.
 - Site specific criteria and constraints that it meets, partially meets, or does not meet.
3. **Reasoning:** The reasons why the evidence meets (or does not meet) the criteria for success and the constraints (how the evidence supports the claim).