

Storm Water Worksheet

Step I: List Examples of Permeable and Impermeable Surfaces

Permeable Surface	Impermeable Surface

Step II: Pour Water on the Model of the Impermeable Landscape

1. Measure and record the amount of water that came off of the impermeable surface as runoff in the table below. Record observations.

Round 1	Original Amount of Water	Amount of Runoff	Amount of water retained in the model	Observations
Impermeable Landscape	250 ml			

Note: ml – milliliters

2. Calculate the Amount of Water Retained in the Model and Record:
Using your measured values, how will you calculate the amount of water that was left in the model? Talk with your table group.

250 ml

Step III: Best Management Practices (cards) change your impermeable landscape

1. Each group gets a stack of cards
2. One person draws a card, reads it and removes sponges from the plastic bag as indicated.
3. Return sponges to the model.
4. Record BMP and check whether you've ever seen this at your school or in your community.
5. Pass the stack of cards to the next person who will do the same thing.
6. Keep doing this for 10 minutes. Remember to record BMP's below.

List Best Management Practices (BMP's)

Seen this?

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

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Step IV: Pour Water on the Model with Permeable Landscape (after 10 minutes)

1. Measure and record the amount of water that came off (runoff) of the landscape with permeable surfaces in the table below. Record observations.

Round 2	Original Amount of Water	Amount of Runoff	Amount of water retained in the model	Observations
Landscape with Permeable Surfaces	250 ml			

Note: ml – milliliters

2. Calculate the Amount of Water Retained in the Model and Record:
Using your measured values, how will you calculate the amount of water that was left in the model? Talk with your table group.

250 ml

Step V: Compare runoff and retention from the landscapes

Landscape	Runoff	Retention
Impermeable		
Permeable		

Step VI: Claims and Evidence

1. What claims can you make about impermeable surfaces based on the evidence that you observed?
2. What claims can you make about permeable surfaces based on the evidence that you observed?