

# Wetlands – A Bad Rap

Name: \_\_\_\_\_ Course: \_\_\_\_\_  
Date: \_\_\_\_\_ Group Members: \_\_\_\_\_

## Part I: Background Knowledge

1. Define wetland:
2. List three ecosystem services provided by wetlands:

## Part II: Hypothesis

Which soil type will retain the most water? Explain why.

## Part III: Data Collection

Soil Type	Dry Mass (g)	Wet Mass (g)	Water Absorbed (g)	% Water Retained
Peat				
Potting Soil				
Sand				
Gravel				

## Part IV: Graphing

Create a bar graph comparing percent water retained by each soil type.

**Percent  
Water  
Retained**

(%)

100

90

80

70

60

50

40

30

20

10

0

Peat

Potting Soil

Sand

Gravel

## Part V: Data Analysis

1. Which soil retained the most water?
2. Explain why peat behaved differently from sand or gravel.

## Part VI: Wetlands & Flooding

Explain how wetlands reduce flooding during heavy rain.

## Part VII: Conclusion

Why are wetlands important to both wildlife and humans?