

Engineering Activity 7: The Final Test: Improve a Process

How can we improve our water reuse processes?

Cost Sheet

Use this page to determine which filter materials you can use without going over budget.

Environment	Budget
Farmhouse	\$125
Mars Habitat	\$250
Floating Research Lab	\$250
International Space Station	\$325

Materials List

Material	Cost	Number Needed	Total Cost
Rubber bands	\$15		
Paper towel (half sheet)	\$20		
Cheesecloth (1' × 1')	\$25		
Cotton ball (1)	\$25		
Sand (1/4 cup)	\$30		
Charcoal (2 Tbsp)	\$50		
Limestone (2 Tbsp)	\$75		
Grand Total Cost:			

Improving a Process

Record a detailed plan for the improvements your group would like to make to your water reuse process.

- Make sure to keep track of any new materials you use.

Test	1	2
Clarity after Filter 1		
Color after Filter 1		
pH after Filter 1		
Smell after Filter 1		
Texture after Filter 1		
Final Clarity		
Final Color		
Final pH		
Final Smell		
Final Texture		