

Name:

Date:

Class:

Engineering Analysis for Clean the Dirty Water (CER) Worksheet

Mission Context

You have designed and tested a filtration system to clean contaminated water from a nuclear power plant. Now, you must analyze your data to report your findings to the city.

Guiding Question

How does the choice and order of filtration materials affect the purity and volume of the recovered water?

Claim	Write a one-sentence statement that directly answers the Guiding Question based on your experiment. (Hint: Which material arrangement worked best, and why?)
Evidence	Provide specific data (qualitative and quantitative) from your experiment to support your claim.

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Reasoning	Explain <i>why</i> your evidence supports your claim. You must use scientific principles to explain how your filter worked in the experiment.
Extension	Discuss the trade-off between how <i>fast</i> the water flowed and how <i>clean</i> it got during the experiment.