

ASK!

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This is your inquiry part. Think of important questions to help you design and plan what you need to do.

1. I found out that the problem is _____
2. This is an important problem because _____

<div>Types of Trash</div>	<div>Possible solutions</div>
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2. I think we can solve it if we _____
3. Here is our list of specifications. Our solution must....

IMAGINE!

This is your thinking part. Think of ways others have solved the problem, and what would work for you.

Draw & label the types of trash you see in the water.

How did Salila solve her problem?
Draw and write about it below.

What have others done to solve the problem? _____

What have you experienced to clean water? _____



PLAN!

This is where you will plan or design your idea that will solve the problem. Make a diagram and label the parts of your filtration structure. You'll collaborate to choose the best one.

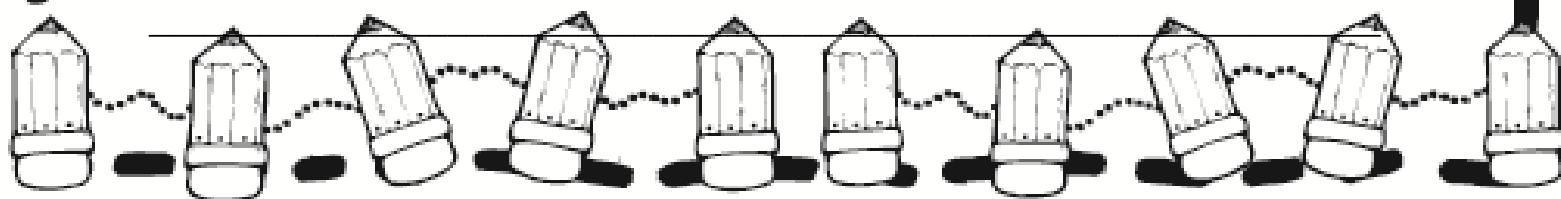
Design 1 (remember to label parts)	Materials used

I designed my instrument this way because _____

Design 2 (remember to label parts)	Materials used

I designed my instrument this way because _____

My collaborative consultant chose design ☐1 ☐2 because _____



CREATE! TEST!

This is where you record observations of your design and what happened when you tested your design. REMEMBER that success is built on failure sometimes. You will have a chance to improve or change your design, and try it again.

1. Which design did you choose? _____
2. What do you think will make your prototype successful?

3. Attach a photo of your prototype, and your trial.

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Specification Identification (fill out the data)

Time _____	Amount of water
Items removed _____	
Comments _____	

IMPROVE!

NOW! Wasn't that fun?! This is the point where you can make your design even better than before. How can it improve?

1. What worked well? _____

2. What was the weakest part of your design? _____

3. Draw what you can do to make it more effective.



4. Will you work...

☐ by yourself

☐ with a partner

☐ with a parent