

# Inquiry Inc. and the Case of the Flooded Fields



Written by

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# CHALLENGE

**Calling all problem solvers!** Our soccer field is flooded. We need you to come up with a plan so that Lee's championship game can still take place on this field in a few days.

Brainstorm with a partner or group about your ideas. What will we do with the water? What will we need to use? Keep a list of your ideas, even if they seem wild!

Choose one idea from your list to work with. Now, show your idea. You can make a drawing, diagram, comic, or a photograph of a model or experiment. We can't wait to see what you create!

Please tell us about your idea in writing. What do you like best about it? What questions do you have?

Thank you for your help!

Sincerely,

*Inquiry Inc.*



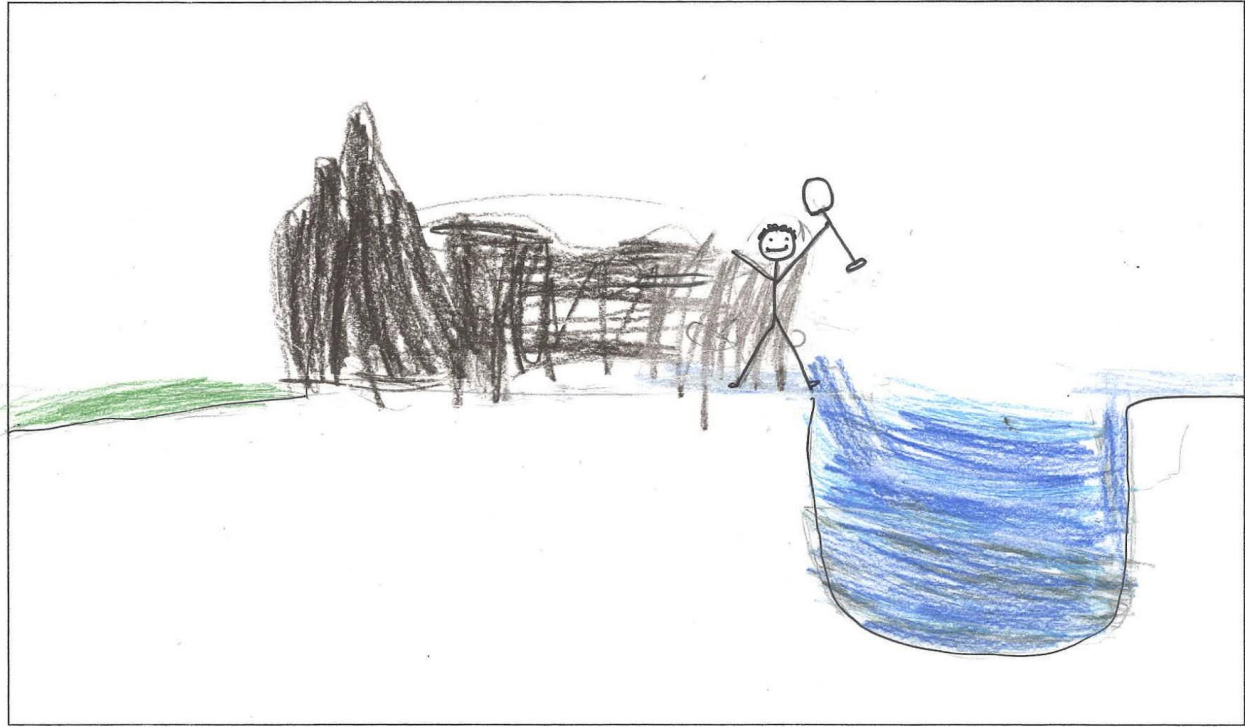
Dig a hole  
to the side  
and let the  
water run in  
to it.

Show your solution here.

Name(s), grade, school:

Ramona

LUKE





*Inquiry, Inc.*

37 Prospect Street  
Northampton, MA 01060

Dear Ramona and Luke,

Inquiry Inc. likes the idea of digging a hole and letting the water run down into it! It's great that you even showed the shovel in the picture, so we know what kind of tool to use. Anna and Sylvia said they have lots of shovels we can borrow so we can all dig. The person in the picture looks happy like we do when we solve problems!

We notice you have a very big pile of dirt, and Carlos wonders (he always wonders about things) what will you do with all the dirt? Is there any way to figure out how big a hole we will have to dig? Or how long it will take? The water in the hole looks fun to swim in -- maybe after playing soccer and winning the tournament.

Thank you for sharing your great ideas and a picture of what the solution looks like!

Sincerely,

*Inquiry Inc.*



Show your solution here.

Name(s), grade, school:

Owen M.

2-3

Hilltown

Siphon

the water  
out of the

Soccerfield  
into a

pond:

If there  
is a pond

put the  
water in the pond

or make a pond.





*Inquiry, Inc.*

37 Prospect Street  
Northampton, MA 01060

Dear Owen,

Thank you so much for sharing your solutions with Inquiry Inc! We loved that you used a siphon to move the water. It is so cool that we can move water like that! We also appreciated that you were clear in your directions about the pond. Clear directions are so much easier to follow!

We had a question at Inquiry Inc. (it is our job to ask questions, after all!). If there is no pond, how do you make a pond? Would you have to dig a pit first?

Hope to hear from you again!

Sincerely,

*Inquiry inc.*



Show your solution here.

Name(s), grade, school: ~~Amelia~~

Eliana



Winning the soccer tournament



**Inquiry, Inc.**

37 Prospect Street  
Northampton, MA 01060

Dear Amelia and Eliana,

We love the colors and detail in your drawing, especially how you show the final tournament after the water is gone! Putting sandbags around the field to keep the water out is a really smart. Carlos has a few questions for you. What do you think will happen to the water once it's siphoned out of the field? Do you think an ordinary siphon will work or will it need to be a different size?

Thanks so much for your help!

Sincerely,

Inquiry Inc.



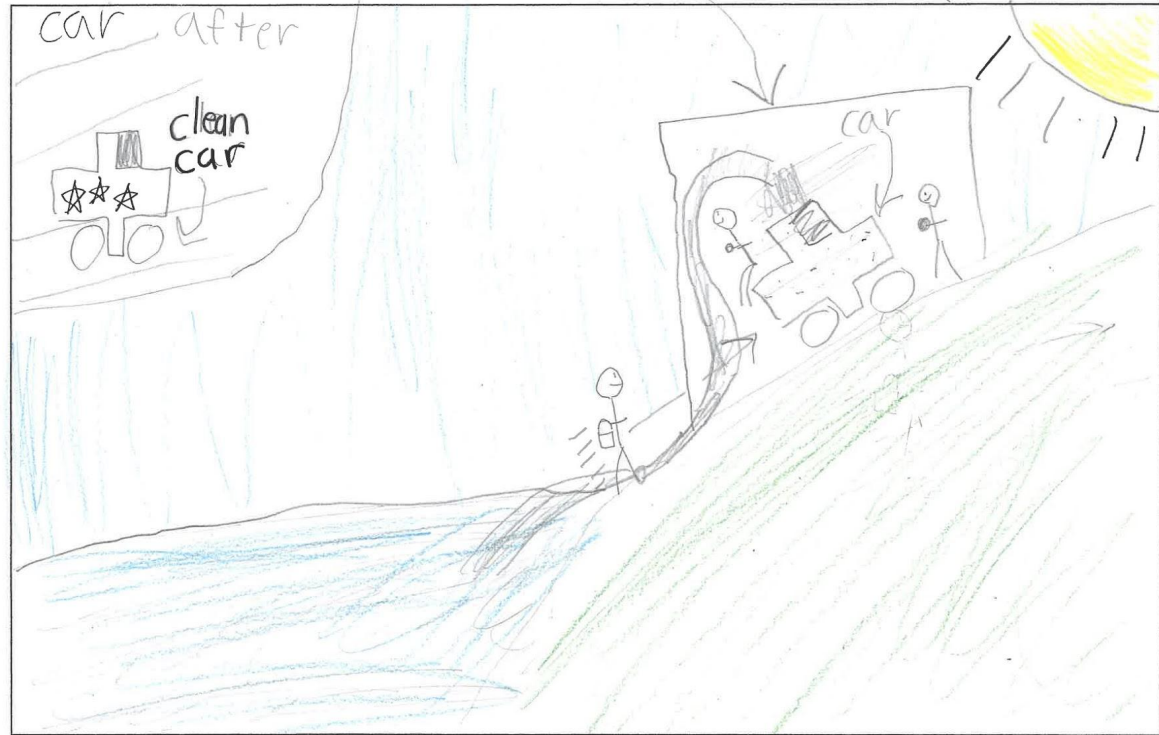


CWEN L.

Show your solution here.

Name(s), grade, school: CAR WASH

Siphon the  
water into  
a car wash





## Inquiry, Inc.

37 Prospect Street  
Northampton, MA 01060

Dear Owen L.,

Your carwash idea is super unique and fun. We haven't seen anything like it before! It also reuses water that would otherwise be wasted which is good. Do you think the water on the field would need to be cleaned before it could be used on cars? If so, how? Where do you think the water will go when the cars are washed?

Thanks for all your help!

Sincerely,

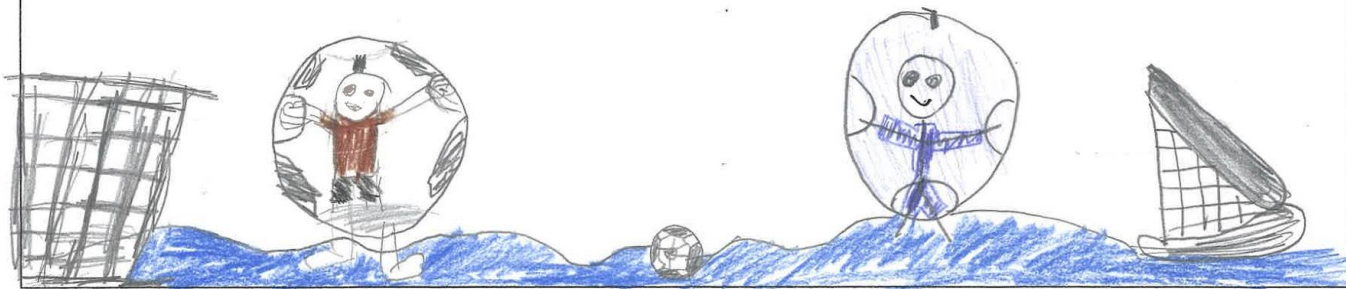
Inquiry Inc.



Show your solution here.

Name(s), grade, school: 2+2 Max / warren

2 big bubbles and a Beach Ball  
it is called bubble soccer.





*Inquiry, Inc.*

37 Prospect Street  
Northampton, MA 01060

Dear Max and Warren,

Wow! Thank you for sending us your idea for fixing our flooded field problem by... playing bubble soccer! We had never heard of this sport, but it sounds like so much fun. Have either of you played? Are the rules the same as in soccer? Prim and Anna are ready to start a team at our school, we think it's so cool.

The first thing that came to Lee's mind when they saw your drawing was the phrase, "The show must go on!" Only, in this case, the tournament must go on! We love that you don't want to let flooding get in our way.

Silvia wonders, though: How much water is too much for bubble soccer? Would we float around like beach balls if the water were above our knees? What would we do then? How else could we save the day?

Sincerely,

*Inquiry inc.*

