



Accident!

Innovative designs to help save lives



Trapped!

- https://www.youtube.com/watch?v=wAKwt_ACIng



What can you do?



How can you help?



What would help the person at the bottom of a well?



Is there something you could come up with which could help to get them out?

The problem

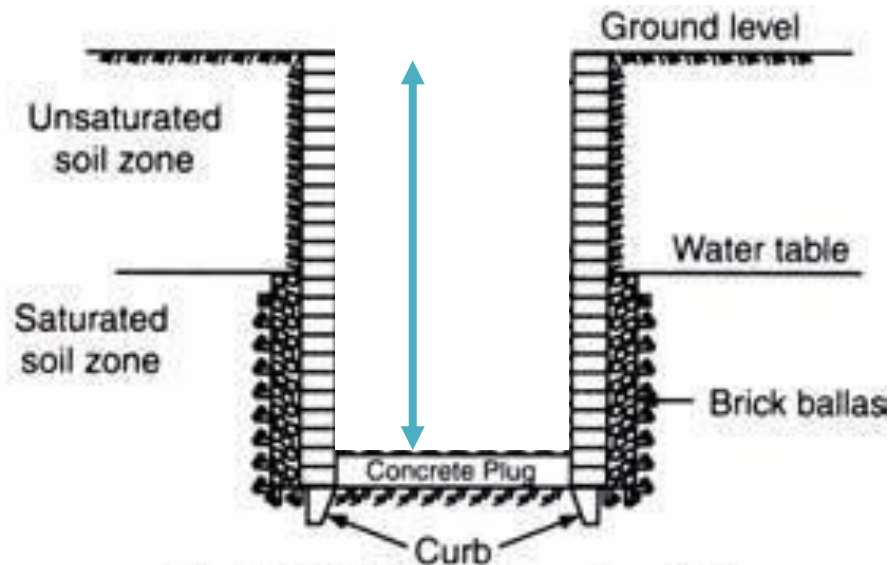


Fig. 17.1. Well with pervious lining

- Is there something that you could design that would assist you in getting out of the well?
- Remember you would need to be able to carry it (weight/flexibility)

The problem

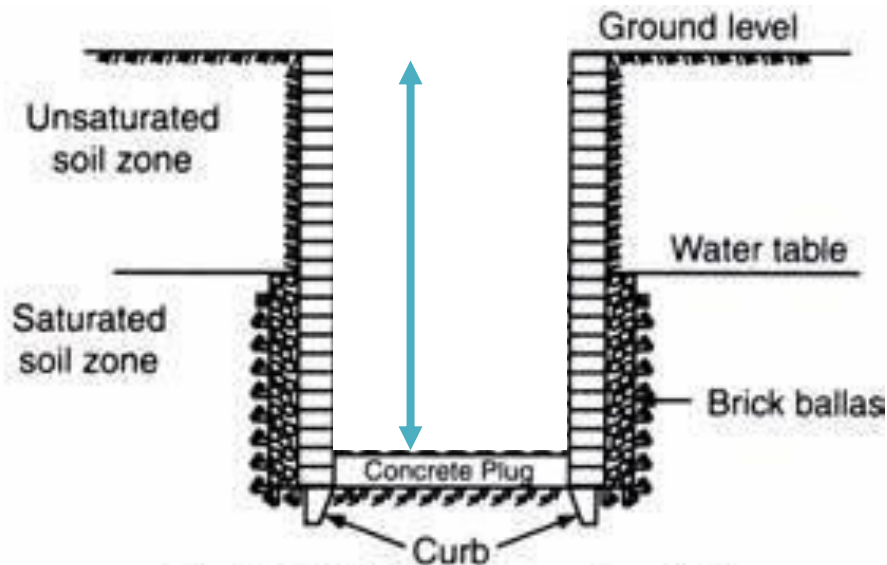


Fig. 17.1. Well with pervious lining

- Is there something that you could design that would assist somebody else in getting out of the well?
- Does it depend on the depth of the well?
- Does it depend on the diameter of the well?



Aspect two - materials

RESEARCH THE TYPES OF MATERIALS THAT YOUR DESIGN COULD BE MADE FROM


MAKE A TABLE OF ADVANTAGES AND DISADVANTAGES OF THE TYPES OF MATERIAL FOR YOUR DESIGN

Sharing ideas

Communicate with others - listen to one another's ideas for designs



Compare and contrast these – thing about something strong and something weak in your contacts arguments



What impact does what they have said have on your decision?

Aspect three – costs and value for money



What materials have you decided on?

Research the costs involved – how much of each material do you need?
How much do you have to buy?

How much would it cost to manufacture your design – can you do it? Do you need to hire a workshop? What does it take to go into mass production and does this reduce any costs?

