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Scientists... let's investigate!

START

Predict

Which material will the water flow most quickly over and through? Will the volume of water collected be equal to the volume poured on the material?



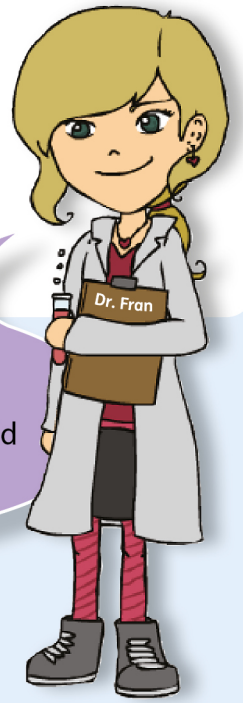
Method

Use modelling clay to prop one end of the guttering up so it gently slopes. Make sure the other end is in or over a container to collect the water.

Equipment

- [ ] Piece of guttering (0.5 m long)
- [ ] Modelling clay
- [ ] Materials to test
- [ ] Measuring cylinder or jug
- [ ] Watering can
- [ ] Collection container
- [ ] Timer
- [ ] Recording sheet and pencil





Is your test fair?
Only change the material in the guttering – everything else should stay the same.

Line the guttering with your first material and record its name.



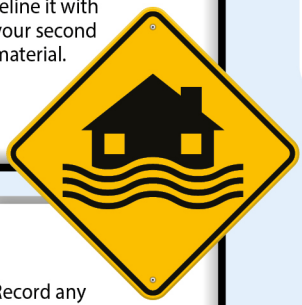
Test every material and always record in exactly the same way.



Test the second material in the same way and record the results accurately.

Use a measuring cylinder or jug to accurately measure the volume of water you have chosen to use and pour it into your watering can.

Remove the material from the guttering and reline it with your second material.



Record any other observations about how the water flowed. Did the material change or move in any way?



Watch what happens as the water flows down the guttering and over or through the material.

Stop the timer when all the water has flowed down the guttering. Record the time. Measure and record the volume of water in the collection container.

Start the timer and at the same time, start pouring the water at the top end of the guttering until it has all gone.

Written for Cornerstones by Dr Fran Barnes

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