

# Lottie loves water



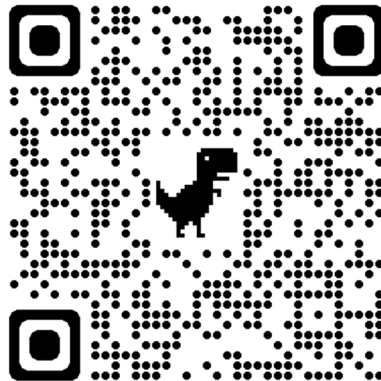
By Paula McMahon

# #WESLottieTour

The WES Lottie Tour takes 'Lottie' to many different locations with lots of different engineering friends who show Lottie the work they do in engineering and related careers.

Its primary aim is for Lottie to inspire and encourage young girls (and boys) to think of careers in engineering and STEM subjects.

Read more about it at [www.weslottietour.org.uk](http://www.weslottietour.org.uk) and download all the Lottie Books for free at [www.weslottietour.org.uk/resources.html](http://www.weslottietour.org.uk/resources.html).



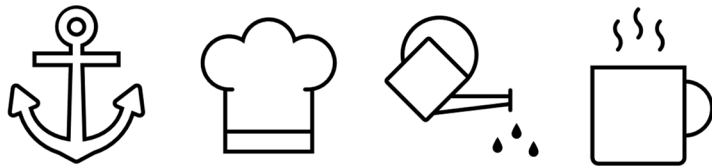
Thank you to Jo Parker and Elizabeth Donnelly for vital contributions to the book.

Lottie and Jo have been having adventures together. Lottie went to see where Jo works.

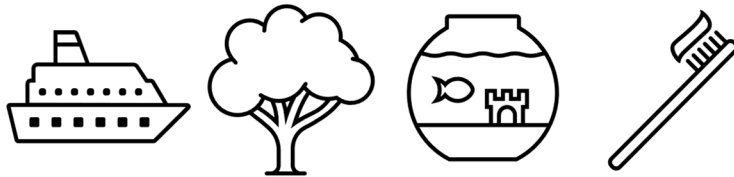
Lottie was very interested in Jo's work as a Civil Engineer.

Lottie loved to hear from Jo who helps save water.





What things do you love about water?





Jo told Lottie about her work on the Women's Engineering Society Climate Emergency Group.

Jo is part of the Water Group which looks at one of the special goals.

These are global goals, but everyone can help. Lottie was excited and had lots of questions.



UN SDG 6 is all about clean water for all

What is your favourite goal?

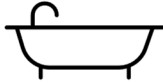


Lottie wondered how Jo was helping to save water.

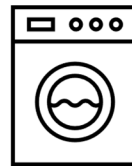
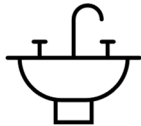
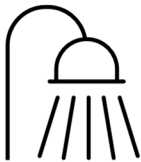
Jo invited Lottie to join her for a day at work on a very large project.

Jo told Lottie how Engineers help people in different ways.





How can you save water?



Jo helps manage our water by finding pipes which leak. This can be difficult as most pipes are buried below the ground.

But Jo does not let this stop her!

Sometimes robots from Australia help Jo look inside pipes.



Jo told Lottie pipes could be found from clues that are everywhere.



Can you find any near where you live?

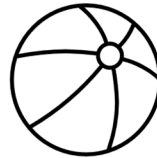
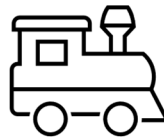
Jo saves water by repairing pipes which are leaking.

If there is a big problem, or the pipes are very old they get replaced with new ones.

Lottie loved watching some new pipes being laid.



What type of things do you like to fix?



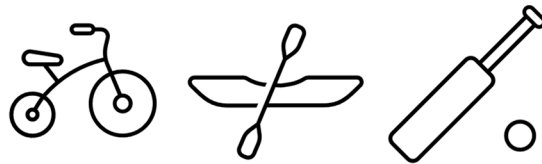


Lottie visited a project which was close to a very important old church. Jo explained that her project involved lots of digging.

Everyone was being extra careful that the church was not damaged by the digging. Jo watches what everyone does carefully.

There must be no leaks in the new pipes before they are buried.





When do you take extra care?





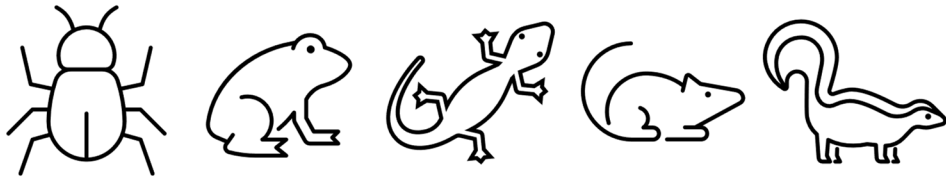
Jo cares about the ground she digs up.

Sometimes Jo gets help from a special machine.

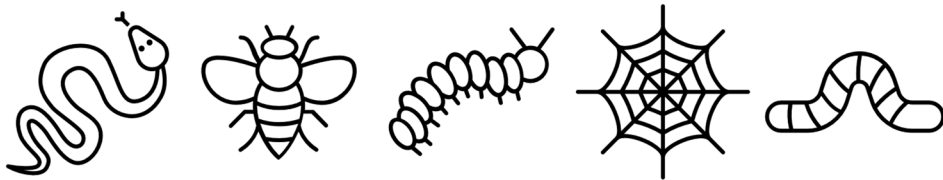
It tunnels below ground, just like some animals.

Lottie loved sitting on this special machine!

Less digging helps the things that live there.



What animals live underground and make tunnels?

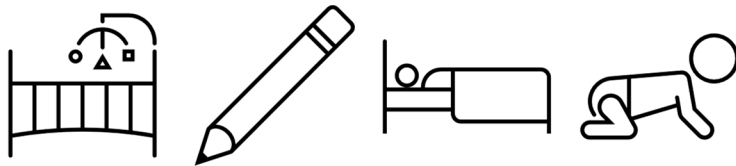


Jo cares about people, animals and the environment.

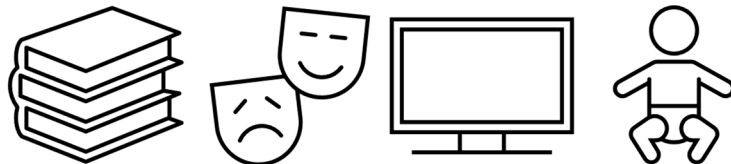
One of her sites was near a school and there were some special hedgehogs living close by.  
Hedgehogs do not like loud noises.

Jo and the team made sure they were not too noisy by using special equipment.





When do you have to be quiet?

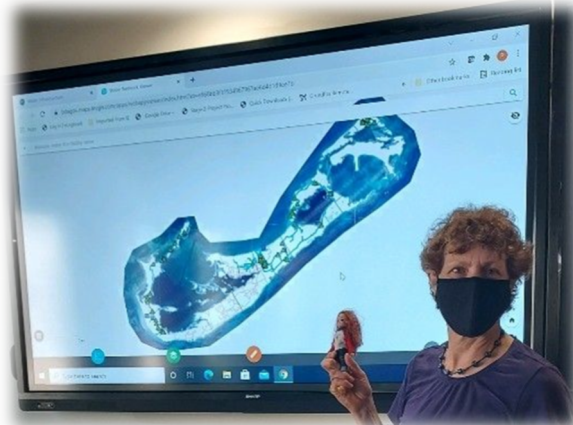


The United Nations Sustainable Development Goals are known as the UN SDGs.



Find out more at <https://sdgs.un.org/goals>

## A little bit about Jo



Jo works very hard to help save water in her job and at home.

Jo took Lottie to a talk she gave and to an exhibition in Italy. Lottie and Jo even visited the Leaning Tower of Pisa.

Jo wants you to save water by reducing what you use in the garden, when taking a shower and even when you brush your teeth.

There are more ideas on how you can do this in our other Lottie Books about adventures at home and in the garden.



## **Paula and Lottie say goodbye for now**

Paula and Lottie hoped you enjoyed reading this book about Lottie's wonderful adventure with my friend Jo.

We both hope you are inspired to learn about nature and engineering.

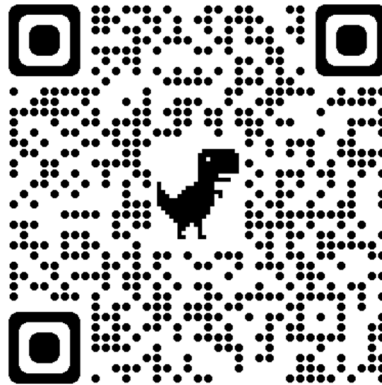


# **The WES Climate Emergency Group**

The Women's Engineering Society (WES) have a special group set up in response to the Climate Emergency declared by the UK Parliament in September 2019.

Paula leads this group of engineers and scientists who work in many different types of jobs.

Everyone shares ideas about how they can help work towards the United Nations Sustainability Goals (UN SDGs).



<https://www.wes.org.uk/content/climate-emergency-group>