

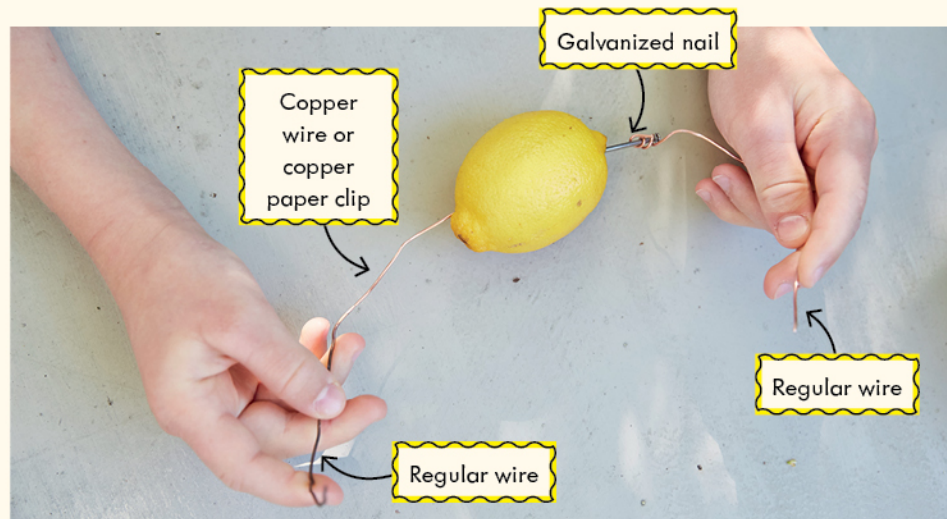


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## EXPLORING CLOSE TO HOME

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EVEN IF YOU GO no farther than your neighborhood park, your backyard, or your balcony, there is plenty of nature out there for you to discover. Sometimes you can even bring nature into your own room.



# Electric Lemons

## SUPPLY LIST

### YOU WILL NEED

One lemon, perhaps two

A nail (which must be galvanized, which means covered in zinc)

A straightened copper paper clip or some copper wire

Regular wire (to wrap around the nail and the copper wire)

A small light bulb (a bulb from a bicycle light will work nicely)

### ACTIVITY

DO YOU WANT TO TRY another electric experiment? Stick a galvanized nail partway into one end of a lemon and a straightened copper paper clip or a piece of copper wire partway into the other end. Wrap some regular wire around the nail and another piece around the copper paper clip or wire. Hold the wire attached to the nail to the metal threading at the base of the light bulb. Then touch the wire attached to the copper paper clip or wire to the gray dot at the bottom of the bulb. The bulb will light up!

Here's what's happening. As the acid in the lemon dissolves tiny pieces of the nail, electricity flows through these pieces of metal to the copper wire and then to the light bulb.

If one lemon is not strong enough, you can use two. This makes your battery twice as powerful. Just add a second lemon by sticking another straightened copper paper clip or a second piece of copper wire into the ends of both lemons to connect them. Have the galvanized nail with wire wrapped around it in lemon 1 and the first piece of copper wire (with regular wire attached) in lemon 2. Hold the ends of the two wires to the bulb as described above.

First published in English by Greystone Books in 2023  
Originally published in German as *Kommst du mit nach Draußen?*  
*Eine Entdeckungsreise durch Garten und Stadt* © 2021 Verlag  
Friedrich Oetinger, Hamburg  
Text copyright © 2021 by Peter Wohlleben  
English translation copyright © 2023 by Jane Billingham

23 24 25 26 27 5 4 3 2 1

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Greystone Kids / Greystone Books Ltd.  
[greystonebooks.com](http://greystonebooks.com)

Cataloguing data available from Library and Archives Canada  
ISBN 978-1-77164-895-0 (cloth)  
ISBN 978-1-77164-896-7 (epub)

The publisher wishes to thank Carmi Milagros Thompson from the Florida Museum of Natural History and Maiz Connolly from the Natural History Museum of Los Angeles County for their expert reviews of the book.

Editing by Jane Billingham  
Copy editing by Dawn Loewen  
Proofreading by Alison Strobel  
Indexing by Stephen Ullstrom  
English edition cover, interior design, and illustrations  
by Belle Wuthrich  
Cover photo by (main) © by DiCon/Photocase.com (main);  
Goshlya Sergii/Shutterstock.com (inset)  
Photo selection for the English edition by Antonia Banyard

Printed and bound in China on FSC® certified paper by Shenzhen Reliance Printing. The FSC® label means that materials used for the product have been responsibly sourced.

Greystone Books thanks the Canada Council for the Arts, the British Columbia Arts Council, the Province of British Columbia through the Book Publishing Tax Credit, and the Government of Canada for supporting our publishing activities.

Canada



Canada Council  
for the Arts

Conseil des arts  
du Canada



Greystone Books gratefully acknowledges the xʷməθkʷəy̓əm (Musqueam), Skwxwú7mesh (Squamish), and səllwətəɫ (Tseil-Waututh) peoples on whose land our Vancouver head office is located.



**Peter Wohlleben's** books about forests and conservation have delighted readers around the world. His children's books include *Can You Hear the Trees Talking?*, a young reader's edition of his New York Times bestseller, *The Hidden Life of Trees*, *Do You Know Where the Animals Live?*, and the picture book *Peter and the Tree Children*. He has written many books for adults including *The Inner Life of Animals* and *The Secret Wisdom of Nature*.

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