

Written by Robin Twiddy

Illustrated by Amy Li

BookLife PUBLISHING

111111

©2021 BookLife Publishing Ltd. King's Lynn Norfolk PE30 4LS

ISBN: 978-1-83927-610-1

Written by: Robin Twiddy

Edited by: Emilie Dufresne

Designed by: Amy Li A catalogue record for this book is available from the British Library.

All facts, statistics, web addresses and URLs in this book were verified as valid and accurate at time of writing. No responsibility for any changes to external websites or references can be accepted by either the author or publisher.

All rights reserved. Printed in Malaysia.

Words that look like <u>this</u> can be found in the glossary on page **24**.

Photo credits All images are courtesy of Shutterstock.com, unless otherwise specified. With thanks to Getty Images, Thinkstock Photo and iStockphoto. Recurring images (cover and internal) – artcreator (Professor), Yamabika, The_Pixel, MoonRock (paper textures), kotoffei, Venomous Vector, illustrator096 (decorative vectors), okawa somchai (leaf texture), Nik Merkulo (soil texture), P2–3 – Pretty Vectors, Tori20, p8–9 – ikolaeva, puxnd, Colorcocktail, p10–11 – sproba, Macrovector, Nadezhda Teo, p14–17 – H.Elvin, Mironov Konstantin, arigato, p22–23 –ElkhatiebVector, Tori20.



Welcome, I am Professor Everafter and I really like STEM subjects. These are science, technology, engineering and mathematics.



Some parts of these fairy tales would never work in real life! I've been trying to see if I can make them work using STEM! Here are my notes on Jack and the Beanstalk.

Jack and the Beanstalk



Once upon a STEM...









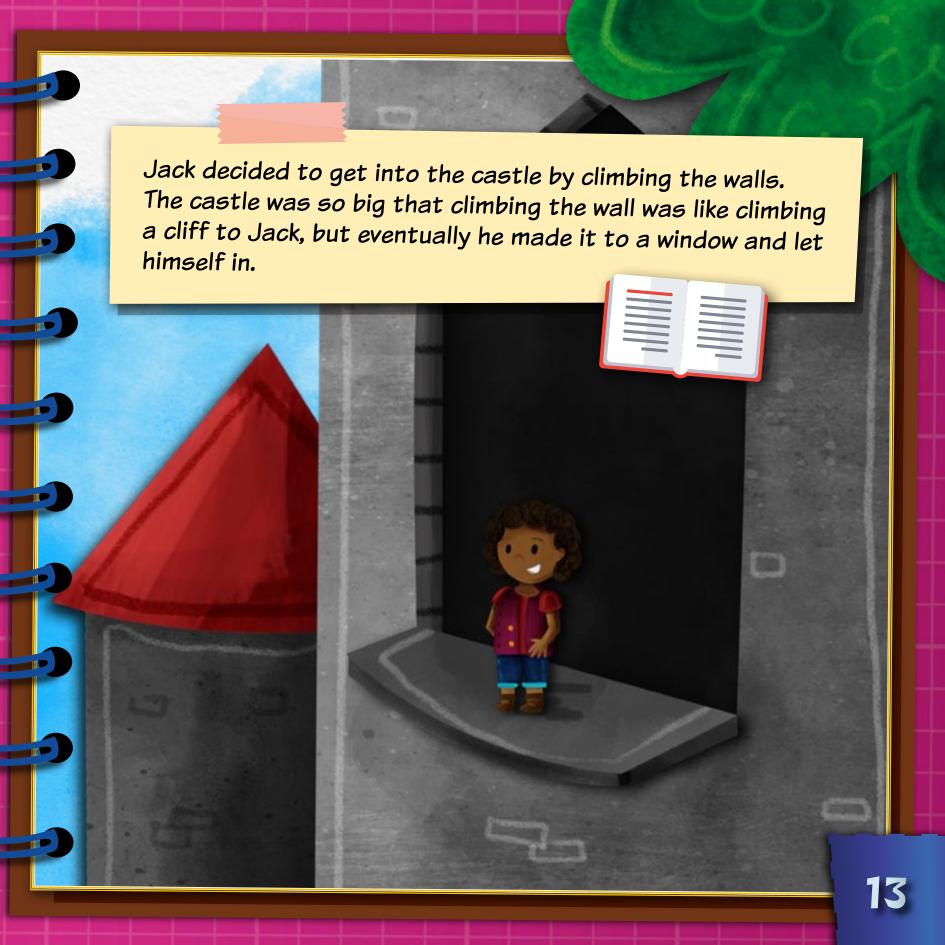






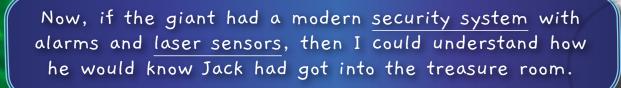












Security camera



If Jack stepped through these lasers, he would have set off an alarm.















Glossary

annual and a second

collapse to fall down or give way suddenly

force a push or pull on an object

laser sensors special equipment that uses lasers and computers to tell

if something has moved through an area

photosynthesis the way that plants make energy from sunlight

protective equipment special clothing that is worn to protect someone from harm

reducing making something smaller or less in amount, bit by bit

scaffolding platforms that help strengthen buildings when they are weak

or when building work is being done to them

security system special equipment that works together to keep something safe

structural to do with the strength of a building or large object, or how

the parts are put together



beans 5-7
beanstalks 3-7, 9-11, 14,
18-19, 21-23
chainsaws 22-23
cows 4-5

cows 4-5 engineering 3, 11

giants 15–21, 23 maths 3, 5, 18 science 3, 7–9, 19–21 technology 3, 16–17, 22 treasure 14, 16–18, 23



Have you heard the story of Jack? You know, the one where he plants the magic beans and a giant beanstalk shoots up into the sky. Did you ever wonder what a scientist would make of that beanstalk? Well wonder no longer, because Professor Everafter is here, and he is going to put this fairy tale under the microscope.

Other titles in this series:



