Lucy's Engineering Adventure



PREVIEW - Does Not Include All Pages

Written by
Danielle Passaglia

Illustrated by
Gabriella Vagnoli



They got to Dad's building and put on their gear.
Dad always says, "Safety's first around here."

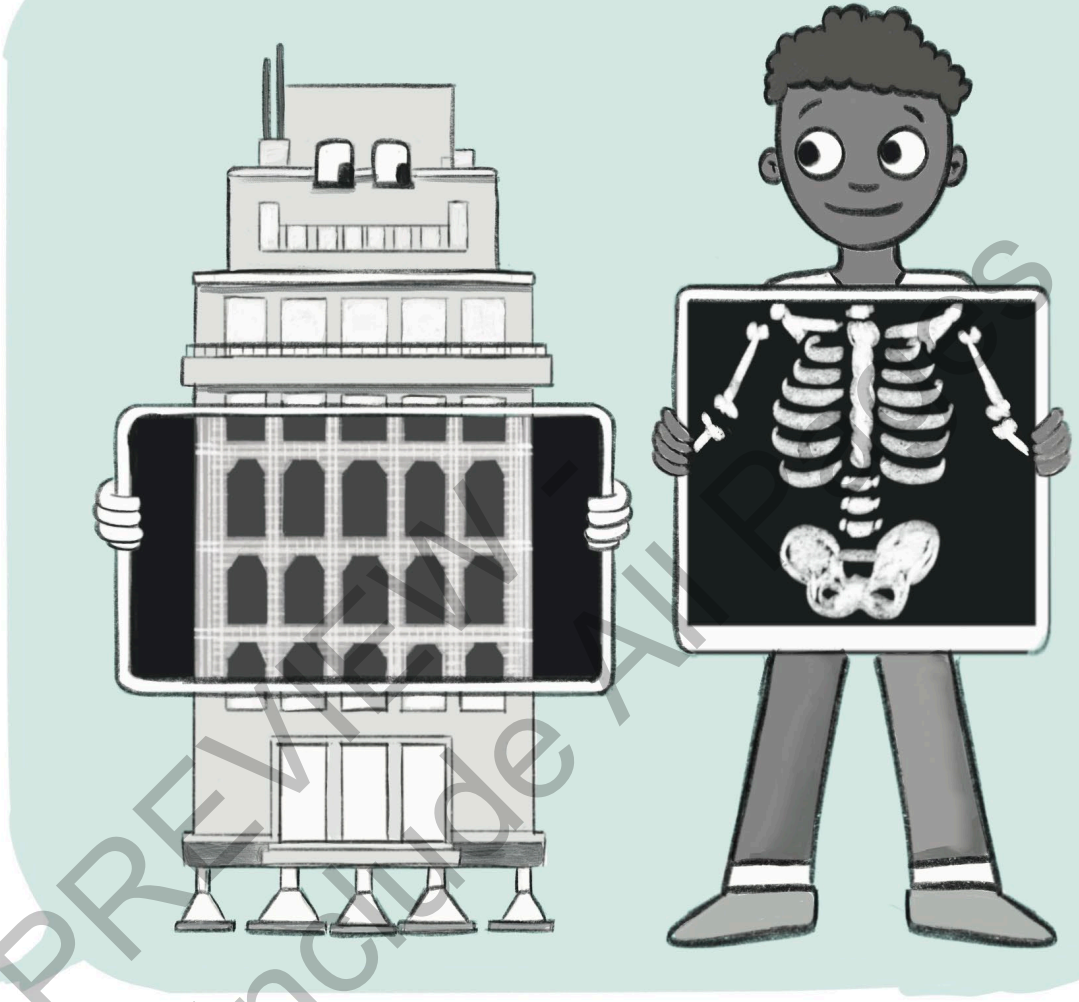
With wide-open eyes, Lucy peeked through the door.
There were pipes and machines and strange things galore!
"What's that thing?" asked Lucy, "And that over there?
Where are the walls? And what about chairs?"

Her dad took her aside, all the better to see.
"A building is kind of like you and like me."

PREVIEW - Does Not Include All Pages

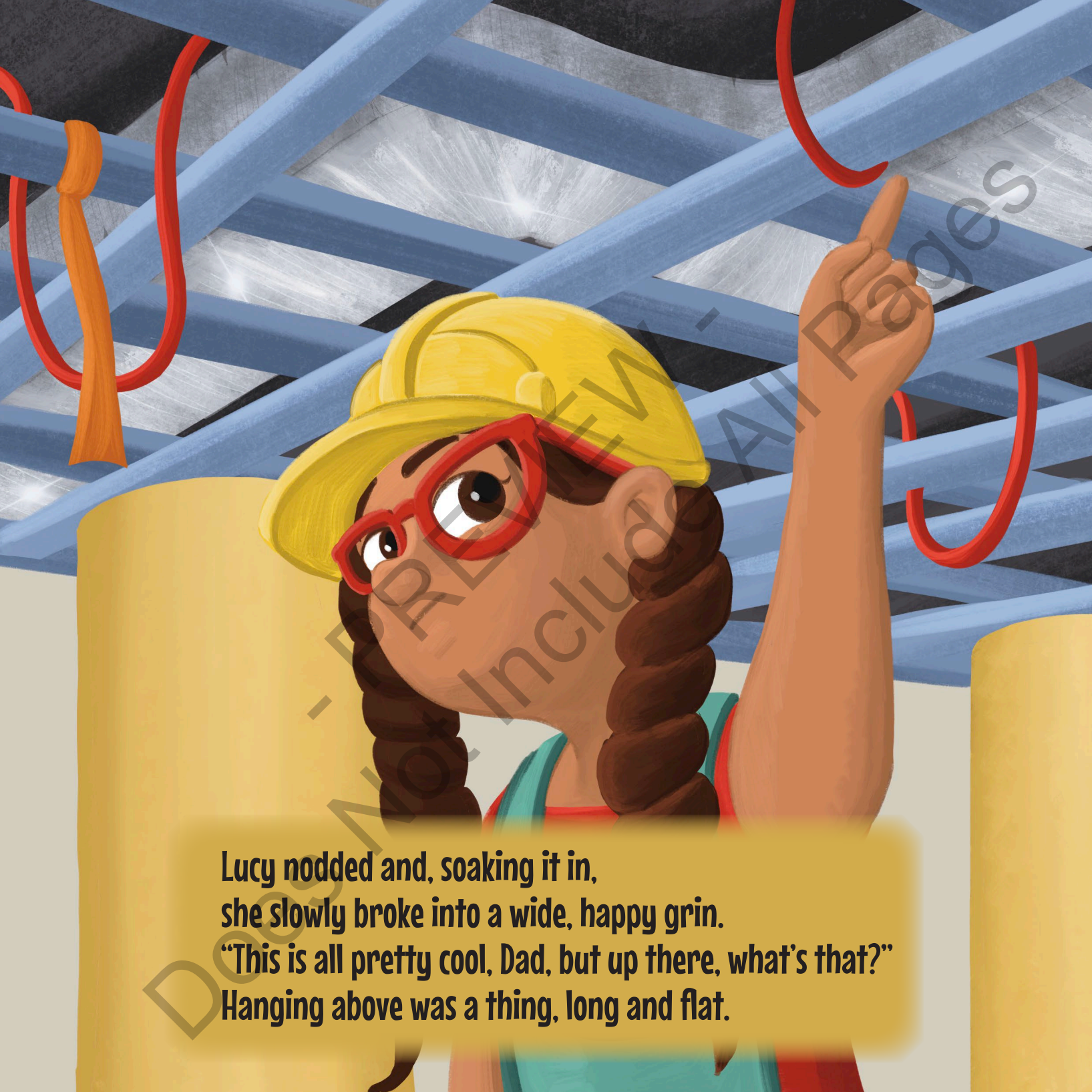
"These beams and columns act just like our bones.

They give us strength so we can stand on our own."



"We need to make sure they are built true and strong,
so people stay safe, and nothing goes wrong."

PREVIEW - Does Not Include All Pages



Lucy nodded and, soaking it in,
she slowly broke into a wide, happy grin.
"This is all pretty cool, Dad, but up there, what's that?"
Hanging above was a thing, long and flat.

Does Not Include All Pages - PREVIEW -

This publication was prepared under the auspices of ASHRAE's Student Activities Committee.

Danielle Passaglia, EIT, LEED® Green Associate, Associate Member ASHRAE, is a Mechanical Engineer at Arup in Chicago, IL. She has nearly a decade of experience volunteering with STEM outreach in the K-12 arena via Engineering Ambassadors, TechGirlz, and ASHRAE's Student Activities Committee.

Gabriella Vagnoli has illustrated multiple books, including three books in the Cayuga Island Kids chapter book series by Judy Bradbury (City of Light Publishing). She is Italian and Brazilian, was born and raised in Italy, and currently resides in Illinois with her American husband, two wonderful multicultural kids, and four crazy cats.

Janice K. Means, PE, LEED® AP, FESD, Fellow ASHRAE, Life Member ASHRAE, Professor Emerita at Lawrence Technological University, provided educational oversight for this book. She holds a BA in Secondary Education (Social Science, Physics Minor), a BS in Engineering, and an MS in Mechanical Engineering.

Founded in 1894, ASHRAE is a global professional society committed to serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields. With world headquarters in metro Atlanta, GA, the Society provides essential resources to improve building systems, energy efficiency, indoor air quality, refrigeration and resilience.

ASHRAE's Student Activities Committee develops a comprehensive program for the educational community for the purpose of promoting and encouraging engineering and HVAC&R careers. It administers and promotes student activities at all levels in the educational system. ASHRAE's K-12/STEM Subcommittee works to advance the awareness, understanding, and appreciation of science, technology, engineering, and math (STEM) in the K-12 student population.

ASHRAE is a registered trademark in the U.S. Patent and Trademark Office, owned by the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.



No part of this publication may be reproduced without permission in writing from ASHRAE, except by a reviewer who may quote brief passages or reproduce illustrations in a review with appropriate credit, nor may any part of this publication be reproduced, stored in a retrieval system, or transmitted in any way or by any means—electronic, photocopying, recording, or other—without permission in writing from ASHRAE. Requests for permission should be submitted at www.ashrae.org/permissions.

-PREVIEW-
Does Not Include All Pages