FIRST. LEGO LEAGUE JR.

ENGINEERING NOTEBOOK DEMO VERSION



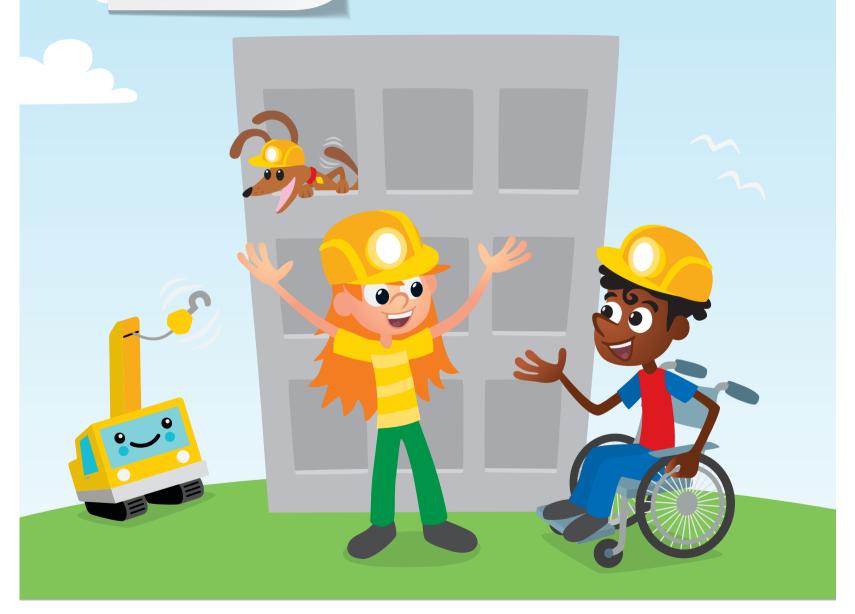








Table of Contents and Session Summaries

BOOMTOWN BUILD SM Challenge	4
Welcome from May and Marco	.5
Session 1: Welcome to Boomtown Learn about the BOOMTOWN BUILD SM Challenge. Then build LEGO® models of buildings in your own community.	6
Session 2: Get Your Building Site Ready Explore what is needed at a building site. Build LEGO models to show what you learn.	8
Session 3: Be an Engineer	0
Session 4: Make It Accessible	.2
Session 5: Make It Environmentally Friendly	.4
Session 6: Make It Durable	6
Session 7: Keep Exploring	8.
Sessions 8 and 9: Create Your Boomtown Build	0
Sessions 10 and 11: Make Your Show Me Poster	
Session 12: Prepare to Share	24
WeDo 2.0 Programming Block Descriptions2	6
Glossary2	8



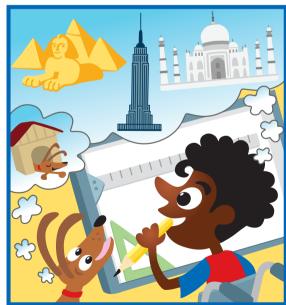
BOOMTOWN BUILDSM Challenge

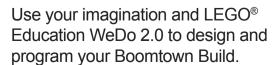
BOOMTOWN

Welcome to Boomtown! Come join our team!











Keep track of what you learn in your Engineering Notebook, and tell about it in a Show Me poster.



May and Marco are excited to see your Boomtown Build! But before you start working on it, you need to find a place to build it. This will be your building site.



Make a LEGO® crane to help you at your building site. Cranes pick things up and move them from one place to another. How else could you use a crane?



What sounds and lights could you use to keep people safe at a building site?



Let's get your building site ready!

Create



May's Group: Build the LEGO crane. How could you use it to help you at your building site?



Marco's Group: Build and program an alarm. Start with the model and program below. How can an alarm help keep people safe? What changes could you make to your alarm to keep people safe at your building site?





Spy Robot



Program your model to play a sound when it detects motion.



Share

Record your ideas below.

