

# Build, Code, and Learn with LEGO WeDo 2.0



## Robodance: Building instruction for the Lego Wedo 2.0 set + program code by Martha E. H. Rustad

★★★★★ 5 out of 5

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In today's technology-driven world, STEM education has become increasingly important for preparing our children for the future. LEGO WeDo 2.0 is an innovative educational tool that combines the fun of building with LEGO bricks with the excitement of coding and robotics. This guide provides parents and educators with everything they need to know to get started with LEGO WeDo 2.0, including:

- Step-by-step instructions for building and programming LEGO WeDo 2.0 projects
- Engaging activities and projects to spark curiosity and creativity
- Tips and resources for integrating LEGO WeDo 2.0 into the classroom

## **Building with LEGO WeDo 2.0**

LEGO WeDo 2.0 is a versatile building system that allows kids to create a wide range of models, from simple machines to complex robots. The set includes a variety of LEGO bricks, sensors, and motors that can be combined in different ways to build and program unique creations.

To get started, simply connect the LEGO WeDo 2.0 smart hub to your computer using a USB cable and launch the WeDo 2.0 software.



## **Coding with LEGO WeDo 2.0**

Once your model is built, you can start coding it using the WeDo 2.0 software. The software is based on a drag-and-drop interface, making it easy for kids of all ages to learn the basics of coding.

To program your model, simply drag and drop coding blocks onto the software workspace. Each block represents a different action or command, such as turning a motor on or off or waiting for a sensor to be activated.



## Engaging Activities and Projects

The LEGO WeDo 2.0 set comes with a variety of activities and projects that are designed to teach kids about different STEM concepts, such as mechanics, engineering, and physics.

Here are a few examples of the activities and projects that are included in the set:

- **Build a working car:** This activity teaches kids about the basics of mechanics and engineering. They will learn how to build a car that can

move forward and backward.

- **Create a sound machine:** This activity teaches kids about the science of sound. They will learn how to build a machine that can make different sounds.
- **Build a light-up house:** This activity teaches kids about the basics of electricity. They will learn how to build a house that can light up.

## **Tips for Integrating LEGO WeDo 2.0 into the Classroom**

LEGO WeDo 2.0 is a great way to engage students in STEM learning. It can be easily integrated into the classroom curriculum by

- Using it to introduce new concepts
- Providing hands-on learning experiences
- Encouraging creativity and problem-solving

Here are a few tips for integrating LEGO WeDo 2.0 into the classroom:

- **Start small:** Don't try to do too much too soon. Start with a simple activity or project that your students can easily complete.
- **Provide clear instructions:** Make sure your students understand the instructions for the activity or project before they start building.
- **Encourage collaboration:** LEGO WeDo 2.0 is a great tool for collaborative learning. Encourage your students to work together to build and program their models.
- **Be patient:** Don't expect your students to learn everything overnight. It takes time to develop coding and engineering skills.

LEGO WeDo 2.0 is an amazing educational tool that can help kids of all ages learn about STEM concepts in a fun and engaging way. With its easy-to-use software and variety of activities and projects, LEGO WeDo 2.0 is a great way to get kids started with coding and robotics.

So what are you waiting for? Start building, coding, and learning with LEGO WeDo 2.0 today!



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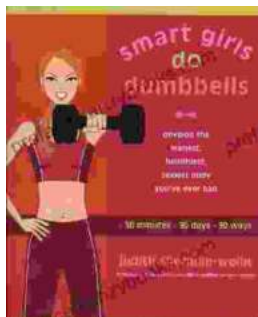
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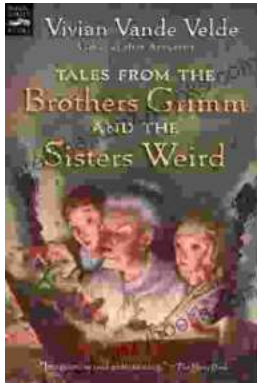
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