Build a Giraffe with LEGO WEDO 2.0: Step-by-Step Instructions with PDF Guide

Embark on an exciting adventure into the world of robotics and wildlife with this captivating project: building a magnificent giraffe with LEGO WEDO 2.0! Whether you're a seasoned builder or a budding engineer, this step-by-step guide will empower you to create a stunning animal model that combines creativity, problem-solving, and a touch of STEM magic.

Giraffe: Lego wedo 2 pdf instructions by Rudyard Kipling

4.7 out of 5

Language	: English
File size	: 9548 KB
Print length	: 215 pages
Lending	: Enabled
Screen Reader	: Supported
Mass Market Paperback	: 138 pages
Item Weight	: 5.1 ounces
Dimensions	: 5 x 0.32 x 8 inches

Materials Required

- LEGO WEDO 2.0 Core Set (85300)
- Giraffe Building Instructions (PDF)
- Scissors

Step-by-Step Building Instructions

1. The Body

1. Build the base of the giraffe's body using the large square bricks. Connect them side-by-side to create a 3x3 square.
2. Attach two 2x2 bricks on top of the base to create a taller structure.
3. Add another 2x2 brick on top of one side to form the giraffe's neck.

2. The Legs

1. Create four identical leg structures using the small white bricks, black pins, and small wheels.
2. Attach the legs to the bottom of the body, spacing them evenly apart.

3. The Head

1. Build the giraffe's head using a combination of tan and brown bricks.
2. Attach two brown bricks to the front to create the muzzle.
3. Add two black eyes and a small brown brick as the nose.
4. Connect two curved tan bricks at the back to form the horns.

4. The Neck

1. Extend the giraffe's neck by adding a series of 2x2 bricks on top of the existing neck structure.
2. Use white pins to connect the bricks and create a flexible and posable neck.

5. The Tail

1. Build a short tail using a tan brick and a small black pin.

2. Attach the tail to the back of the body.

6. The Spots

1. Create brown circles using the round bricks and attach them to the giraffe's body as spots.
2. Use different sizes and arrangements of spots to give your giraffe a unique pattern.

Programming the Giraffe

Once you've built your giraffe, it's time to bring it to life with the LEGO WEDO 2.0 software. Here's a simple program to make your giraffe move its head and neck:

1. Connect the LEGO WEDO 2.0 hub to your computer or device.
2. Open the LEGO WEDO 2.0 software and create a new project.
3. Select the "Tilt Sensor" and connect it to the giraffe's head.
4. Add a "Motor" block to the software and connect it to the giraffe's neck motor.
5. Create a "When Tilt Sensor" block and drag it onto the workspace.
6. In the "When Tilt Sensor" block, select the "tilt forward" or "tilt backward" option.
7. Add a "Turn Motor" block inside the "When Tilt Sensor" block and set the motor speed and duration to control the giraffe's neck movement.

Congratulations! You've successfully built and programmed a majestic giraffe using LEGO WEDO 2.0. This project not only showcases your

creativity but also enhances your understanding of STEM concepts such as robotics, mechanics, and programming. Keep exploring the world of LEGO WEDO 2.0 and continue to build amazing creations that combine fun and education.

Downloadable PDF Instructions

To access the complete PDF building instructions for the giraffe, please follow this link:

Giraffe Building Instructions (PDF)

Happy building and learning!

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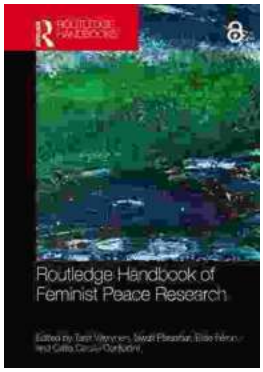

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