What is in the box?

9580 LEGO® Education WeDo™ Construction Set

The 9580 LEGO® Education WeDo™ Construction Set enables students to build LEGO® models that attach to the LEGO® USB Hub and then control the models using computer programs. The set contains 158 elements including a LEGO Hub, motor, tilt sensor and a motion sensor that add movement and intelligence to the model.

LEGO® USB Hub

The LEGO® USB Hub controls sensors and motors from the 2000095 LEGO® Education WeDo™ Software. Power and data are transmitted from the LEGO motors and sensors to and from the computer using the two LEGO Hub ports. The WeDo Software automatically detects the LEGO Hub and any motors and sensors attached to it. Up to three LEGO Hubs can be attached.

Motor

The motor can be programmed to turn this way or that way and to move at different power levels. Power for the motor is supplied through voltage from the computer's USB port (5V). Axles or other LEGO elements can be attached to the motor.

Tilt Sensor

The tilt sensor reports the direction it is tilted. The tilt sensor detects changes within six different positions: Tilt This Way, Tilt That Way, Tilt Up, Tilt Down, No Tilt and Any Tilt.

Motion Sensor

The motion sensor detects objects within a range of 15 centimeters (or about 6 inches) depending on the design of the object.

Lego Education Wedo Teachers Guide

LEGO koncernen (Denmark)

Lego Education Wedo Teachers Guide:

LEGO Education Wedo Teacher's Guide LEGO koncernen (Denmark),2009 **Handbook of Research on Tools for Teaching Computational Thinking in P-12 Education** Kalogiannakis, Michail,Papadakis, Stamatios,2020-06-26 While the growth of computational thinking has brought new awareness to the importance of computing education it has also created new challenges Many educational initiatives focus solely on the programming aspects such as variables loops conditionals parallelism operators and data handling divorcing computing from real world contexts and applications This decontextualization threatens to make learners believe that they do not need to learn computing as they cannot envision a future in which they will need to use it just as many see math and physics education as unnecessary The Handbook of Research on Tools for Teaching Computational Thinking in P 12 Education is a cutting edge research publication that examines the implementation of computational thinking into school curriculum in order to develop creative problem solving skills and to build a computational identity which will allow for future STEM growth Moreover the book advocates for a new approach to computing education that argues that while learning about computing young people should also have opportunities to create with computing which will have a direct impact on their lives and their communities Featuring a wide range of topics such as assessment digital teaching and educational robotics this book is ideal for academicians instructional designers teachers education professionals administrators researchers and students Library Robotics Sarah Kepple,2015-10-22 A dive right in quick start guide for busy library professionals who want to build literacy STEAM and other 21st century skills using simple robots in a fun collaborative environment Robotics in the library Absolutely Robotics can add a new dimension to library programming one that can help America s youth build the Science Technology Engineering Art and Math STEAM and 21st century learning skills they will need to be successful in an international technology infused workforce This book provides a complete guide for launching a robotics program in the library and demonstrates the links between robotics programming and learning It also includes complete instructions for various program models that employ robotics Robotics programs are an ideal way for public and school libraries to demonstrate their vital roles as the hubs of community learning and the subject is universally popular with students as well as parents and industrial funders The book s clearly and succinctly written chapters begin by providing the information that librarians will need for stakeholders and to select equipment then move logically into addressing guided activities and expansion ideas Children s librarians teen librarians school media specialists particularly those focused on middle school students and adult and technology librarians looking to connect with new adults will find this book useful and appealing Handbook of Research on Modern Educational Technologies, Applications, and Management Khosrow-Pour D.B.A., Mehdi,2020-07-10 As technology and technological advancements become a more prevalent and essential aspect of daily and business life educational institutions must keep pace in order to maintain relevance and retain their ability to adequately prepare students

for their lives beyond education Such institutions and their leaders are seeking relevant strategies for the implementation and effective use of new and upcoming technologies and leadership strategies to best serve students and educators within educational settings As traditional education methods become more outdated strategies to supplement and bolster them through technology and effective management become essential to the success of institutions and programs The Handbook of Research on Modern Educational Technologies Applications and Management is an all encompassing two volume scholarly reference comprised of 58 original and previously unpublished research articles that provide cutting edge multidisciplinary research and expert insights on advancing technologies used in educational settings as well as current strategies for administrative and leadership roles in education Covering a wide range of topics including but not limited to community engagement educational games data management and mobile learning this publication provides insights into technological advancements with educational applications and examines forthcoming implementation strategies These strategies are ideal for teachers instructional designers curriculum developers educational software developers and information technology specialists looking to promote effective learning in the classroom through cutting edge learning technologies new learning theories and successful leadership tactics Administrators educational leaders educational policymakers and other education professionals will also benefit from this publication by utilizing the extensive research on managing educational institutions and providing valuable training and professional development initiatives as well as implementing the latest administrative technologies Additionally academicians researchers and students in areas that include but are not limited to educational technology academic leadership mentorship learning environments and educational support systems will benefit from the extensive research compiled within this publication **Mobile Learning Applications in Early Childhood Education** Papadakis, Stamatios,Kalogiannakis, Michail,2019-11-29 Mobile technologies combined with an interdisciplinary approach to knowledge and organization of learning experiences that are meaningful to children could create a creative and interactive learning environment different from that of traditional teaching Making good use of mobile learning with appropriate devices will increase the learning motivations of the students and help them bring about positive performance Mobile Learning Applications in Early Childhood Education is a collection of innovative research on the methods and applications of mobile learning techniques and strategies within diversified teaching settings While highlighting topics including computational thinking ubiquitous learning and social development this book is ideally designed for researchers teachers parents curriculum developers instructional designers academicians students and practitioners seeking current research on the application of mobile technology within child education Research Anthology on Computational Thinking, Programming, and Robotics in the Classroom Management Association, Information Resources,2021-07-16 The education system is constantly growing and developing as more ways to teach and learn are implemented into the classroom Recently there has been a growing interest in teaching computational thinking with schools all over the world introducing it to the curriculum

due to its ability to allow students to become proficient at problem solving using logic an essential life skill In order to provide the best education possible it is imperative that computational thinking strategies along with programming skills and the use of robotics in the classroom be implemented in order for students to achieve maximum thought processing skills and computer competencies The Research Anthology on Computational Thinking Programming and Robotics in the Classroom is an all encompassing reference book that discusses how computational thinking programming and robotics can be used in education as well as the benefits and difficulties of implementing these elements into the classroom The book includes strategies for preparing educators to teach computational thinking in the classroom as well as design techniques for incorporating these practices into various levels of school curriculum and within a variety of subjects Covering topics ranging from decomposition to robot learning this book is ideal for educators computer scientists administrators academicians students and anyone interested in learning more about how computational thinking programming and robotics can change the current education system **Activity Pack for Simple Machines** ,2012 **Teacher's guide for LEGO school sets** ,1985 Robotics Models Using LEGO WeDo 2.0 Diego Galvez-Aranda,Mauricio Galvez Legua,2021-07-27 Build 12 robotics models using LEGO WeDo 2 0 This book features models created especially to introduce LEGO enthusiasts to hardware and software concepts while creating robots inspired by natural wildlife You ll learn the basics behind different mechanisms and principals required to build walking robots Simultaneously make your model come to life by incorporating powerful yet simple programming techniques For every model go through all the phases to explore each robot s functionality solve problems using creativity identify issues and propose solutions The authors s expertise working in education mathematics programming electronic and robotics came together to produce this book The methodology used is designed to help you discover new knowledge that has been used historically in science It relies on observation measurement experimentation and formulation analysis and modification of hypotheses All activities are carried out following the methodology created by the authors called 5 phases of educational robotics 5PER which are design construction programming testing and finally documenting and sharing With Robotics Models Using LEGO WeDo 2 0 you ll create solutions to specific tangible problems while building fun and engaging LEGO models and learning to program them to accomplish basic tasks What You ll Learn Create your own LEGO WeDo 2 0 inventions using the design principles in this book Understand the mechanics behind animal motions by developing robotic prototypes and how they interact with our environment through the use of sensors and actuators Solve problems by using an iconographic programming language for the implementation of algorithms Who This Book Is For LEGO enthusiasts and students who want to prototype solutions to challenges using mechanical and computer science engineering Teachers and parents of younger LEGO enthusiasts will also find the book a helpful guide to introducing the world of robotics in a dynamic and fun way Animate-build-code With Lego and Scratch Robin Frazier,2016-03-15 TAKE A LOOK INSIDE Two Getting Started lessons in Scratch c to get yourself and students familiar with basic functions of

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