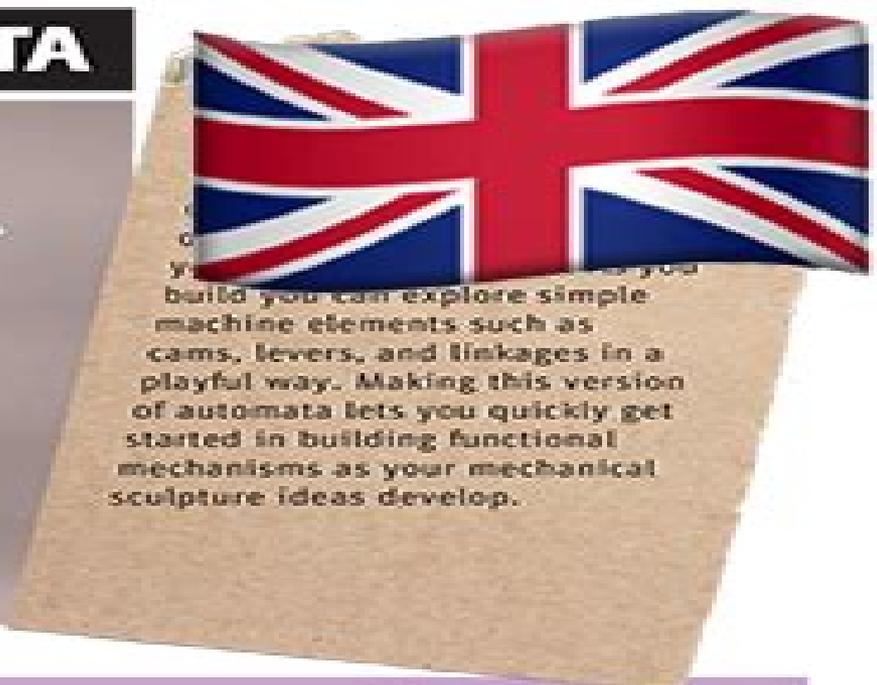


# CARDBOARD AUTOMATA



you build you can explore simple machine elements such as cams, levers, and linkages in a playful way. Making this version of automata lets you quickly get started in building functional mechanisms as your mechanical sculpture ideas develop.

## TRY IT!

**Gather these materials for building your automata**

- Small cardboard box (approximately 6" x 6")
- Thick foamie sheet - 6mm thick craft foamies for the cams and cam followers
- Skewer sticks
- Paper drinking straw
- Masking tape
- Scissors
- Hot glue gun and glue stick
- Washers and nuts (for weight)
- Sharpened pencil
- Nail or wood screw (for poking holes in the cardboard)



the  
tinkering  
studio

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# Cardboard Automata Exploratorium

**Marc J. de Vries, Stefan Fletcher, Stefan Kruse, Peter Labudde, Martin Lang, Ingelore Mammes, Charles Max, Dieter Münk, Bill Nicholl, Johannes Strobel, Mark Winterbottom**

## **Cardboard Automata Exploratorium:**

**Makeology** Kylie Peppler, Erica Rosenfeld Halverson, Yasmin B. Kafai, 2016-05-20 Makeology introduces the emerging landscape of the Maker Movement and its connection to interest driven learning While the movement is fueled in part by new tools technologies and online communities available to today s makers its simultaneous emphasis on engaging the world through design and sharing with others harkens back to early educational predecessors including Froebel Dewey Montessori and Papert Makers as Learners Volume 2 highlights leading researchers and practitioners as they discuss and share current perspectives on the Maker movement and research on educational outcomes in makerspaces Each chapter closes with a set of practical takeaways for educators researchers and parents

**Pedagogical Content Knowledge in STEM** Stephen Miles Uzzo, Sherryl Browne Graves, Erin Shay, Marisa Harford, Robert Thompson, 2018-10-25 This volume represents both recent research in pedagogical content knowledge PCK in science technology engineering and math STEM as well as emerging innovations in how PCK is applied in practice The notion of research to practice is critical to validating how effectively PCK works within the clinic and how it can be used to improve STEM learning As the need for more effective educational approaches in STEM grows the importance of developing identifying and validating effective practices and practitioner competencies are needed This book covers a wide range of topics in PCK in different school levels middle school college teacher training teacher professional development and different environments museums rural The contributors believe that vital to successful STEM education practice is recognition that STEM domains require both specialized domain knowledge as well as specialized pedagogical approaches The authors of this work were chosen because of their extensive fieldwork in PCK research and practice making this volume valuable to furthering how PCK is used to enlighten the understanding of learning as well as providing practical instruction This text helps STEM practitioners researchers and decision makers further their interest in more effective STEM education practice and raises new questions about STEM learning

**STEM in Early Childhood Education** Lynn E. Cohen, Sandra Waite-Stupiansky, 2019-07-12 Bringing together a diverse cohort of experts STEM in Early Childhood Education explores the ways STEM can be integrated into early childhood curricula highlighting recent research and innovations in the field and implications for both practice and policy Based on the argument that high quality STEM education needs to start early this book emphasizes that early childhood education must include science technology engineering and mathematics in developmentally appropriate ways based on the latest research and theories Experienced chapter authors address the theoretical underpinnings of teaching STEM in the early years while contextualizing these ideas for the real world using illustrative examples from the classroom This cutting edge collection also looks beyond the classroom to how STEM learning can be facilitated in museums nature based learning outdoors and after school programs STEM in Early Childhood Education is an excellent resource for aspiring and veteran educators alike exploring the latest research providing inspiration and advancing best practices for teaching STEM in the early years

**The Impact of Technology Education** Marc J. de Vries, Stefan Fletcher, Stefan Kruse, Peter Labudde, Martin Lang, Ingelore Mammes, Charles Max, Dieter Münk, Bill Nicholl, Johannes Strobel, Mark Winterbottom, 2020 The increasing use of technology in our lives requires not only the qualification of young professionals through vocational training in order to maintain innovation and technical and societal progress but also a technical education for everyone so as to cope with these environments and to become a society with technology literacy A lack of technology activities may not only result in a technology illiteracy thus making a responsible participation in social life more difficult but also has an impact on identity development Against this background technology education is getting important and has an impact on various aspects of the personality e g skills knowledge and interest in technology which initiate lifelong learning With the combination of articles the editors of Technology Education Vol III want to give an insight into international approaches of technology education and its impact Nine authors respectively teams of authors from various countries present their educational setting and the impact it has for the personality development in technology [Research Anthology on Makerspaces and 3D Printing in Education](#) Management Association, Information Resources, 2022-05-06 Education has changed dramatically in recent years as educational technologies evolve and develop at a rapid pace Teachers and institutions must constantly update their practices and curricula to match this changing landscape to ensure students receive the best education possible 3D printing has emerged as a new technology that has the potential to enhance student learning and development Moreover the availability of makerspaces within schools and libraries allows students to utilize technologies that drive creativity Further study on the strategies and challenges of implementation is needed for educators to appropriately adopt these learning practices The Research Anthology on Makerspaces and 3D Printing in Education considers the benefits these technologies provide in relation to education as well as the various ways they can be utilized in the classroom for student learning The book also provides a review of the difficulties educators face when implementing these technologies into their curricula and ensuring student success Covering topics such as educational technologies creativity and online learning this major reference work is ideal for administrators principals researchers scholars practitioners academicians instructors and students **American Perspectives on Learning Communities and Opportunities in the Maker Movement** Barker, Bradley S., 2019-01-11 The maker movement culture emphasizes informal peer led and shared learning while driving innovation Even though some experts view the maker movement as a move backward to pre industrial revolution manufacturing the purpose of making is not to have an abundance of tools in one space rather it is about helping participants create personally meaningful projects with the help of mentors experts and peers in ad hoc learning communities American Perspectives on Learning Communities and Opportunities in the Maker Movement is an essential reference source that discusses the maker movement in the United States artisanal perspectives and the learning through doing perspective Featuring research on topics such as educational spaces management creativity labs makerspaces and operating procedures this book is ideally designed for entrepreneurs

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web ms word shoot a beam of light at a metal plate in a virtual lab and observe the effect on surface electrons the type of metal as well as the wavelength and amount of light can