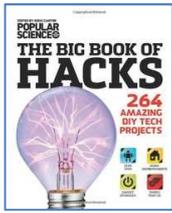


## Hot topics

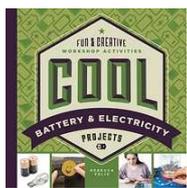
# Industrial arts



**The big book of hacks** edited by Doug Cantor. San Francisco, CA: Weldon Owen, 2012. 600 BIG

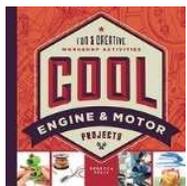
"Fire up your soldering iron, charge that drill, and get ready to hack! From a tiny theremin to a watermelon keg, from an automatic cat feeder to a glowing mousepad, the ingenious and hilarious projects in *The big book of hacks* are makers. And it's all brought to you by the DIY masters at *Popular science* magazine." – Back cover.

perfect for aspiring



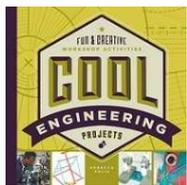
**Cool battery & electricity projects: fun & creative workshop activities** by Rebecca Felix. Minneapolis, MN: Abdo Publishing, 2017. 621 FEL

"Wire, power, connect, and create with *Cool battery & electricity projects*! Construct a light-up button, wire a working lamp, build a buzzing electric game, and more! Each project includes easy-to-read, step-by-step instructions paired with photographs. Learn to use tools of the trade to make one-of-a-kind creations!" – Back cover. Suitable for lower secondary students.



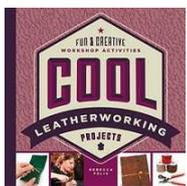
**Cool engine & motor projects: fun & creative workshop activities** by Rebecca Felix. Minneapolis, MN: Abdo Publishing, 2017. 621 FEL

"Assemble, build, and put power in motion with *Cool engine & motor projects*! Create a mini buzzing robot with a battery-powered engine, move a small ship with steam, and more! Each project includes easy-to-read, step-by-step instructions paired with photographs. Learn to use tools of the trade to make one-of-a-kind creations!" – Back cover. Suitable for lower secondary students.



**Cool engineering projects: fun & creative workshop activities** by Rebecca Felix. Minneapolis, MN: Abdo Publishing, 2017. 620.1 FEL

"Design, arrange, construct, and experiment with *Cool engineering projects*! Build a colorful working catapult, assemble a simple-machine maze, and more! Each project includes easy-to-read, step-by-step instructions paired with photographs. Learn to use tools of the trade to make one-of-a-kind creations!" – Back cover. Suitable for lower secondary students.



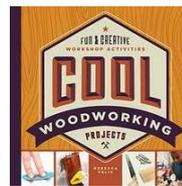
**Cool leatherworking projects: fun & creative workshop activities** by Rebecca Felix. Minneapolis, MN: Abdo Publishing, 2017. 745.53 FEL

"Stitch, weave, distress, and design with *Cool leatherworking projects*! Sew a leather backpack pouch, sand and stretch leather into a medieval folder, and more! Each project includes easy-to-read, step-by-step instructions paired with photographs. Learn to use tools of the trade to make one-of-a-kind creations!" – Back cover. Suitable for lower secondary students.



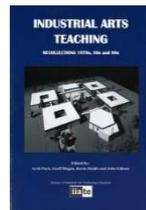
**Cool metalworking projects: fun & creative workshop activities** by Rebecca Felix. Minneapolis, MN: Abdo Publishing, 2017. 671 FEL

"Bend, twist, shape, and polish with *Cool metalworking projects*! Build a magnetic metal maze, design shoes with metal spring laces, construct a mini metal notebook, and more! Each project includes easy-to-read, step-by-step instructions paired with photographs. Learn to use tools of the trade to make one-of-a-kind creations!" – Back cover. Suitable for lower secondary students.



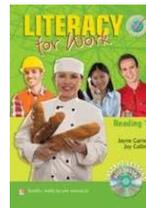
**Cool woodworking projects: fun & creative workshop activities** by Rebecca Felix. Minneapolis, MN: Abdo Publishing, 2017. 674 FEL

"Sand, saw, stain, and hammer with *Cool woodworking projects*! Handcraft a cool bow and arrow set, build sturdy wooden bookends, bend and mold a mini wooden skateboard, and more! Each project includes easy-to-read, step-by-step instructions paired with photographs. Learn to use tools of the trade to make one-of-a-kind creations!" – Back cover. Suitable for lower secondary students.



**Industrial arts teaching: recollections 1970s, 80s and 90s** edited by Arch Park, Geoff Hogan, Kevin Dodds and John Gibson. Northmead, NSW: Institute of Industrial Arts Technology Education, 2016. 670 IND

Over 20 industrial arts teachers were interviewed for this history of industrial arts teaching in NSW.



**Literacy for work** by Jayne Garner, Joy Collins. Clayton South, Vic: Blake Education, 2011. 428.24 GAR

"The *Literacy for work: reading and Literacy for work: writing* series are collections of photocopiable pdf work sheets that reinforce essential reading and writing skills. The activities put literacy in context in three workplaces: a hotel, a supermarket and a factory. Topics include: writing letters and emails; proof reading; reading labels and signs; reading advertisements; writing orders; taking messages." – Publisher information. In 3 volumes for reading and 3 volumes for writing.

The units of work, suitable for students in years 7–10, also support less able students. All the work sheets are included as a PDF on the attached CD-ROM, making them ideal resources for use on interactive whiteboards.

Postal service for members

Resources available for loan from the NSW Teachers Federation Library

23-33 Mary St Surry Hills NSW 2010 Locked Bag 3010 Darlinghurst NSW 1300

Ph 02 9217 2113 Fax 02 9217 2481 E [library@nswtf.org.au](mailto:library@nswtf.org.au) Web [www.nswtf.org.au](http://www.nswtf.org.au) click on Services tab

September 2017

# Industrial arts



**Metal shop technics** by T.A. Gray and T. McCormick. Sydney: Brooks, 1977, [reprinted 1981]. 671 GRA

"This book covers all the metalworking strands in the Technics Course." – Preface.



**Metal technics** by T.A. Gray and T. McCormick. 2<sup>nd</sup> ed. Milton, Qld: Brooks Waterloo, 1989. 671 GRA

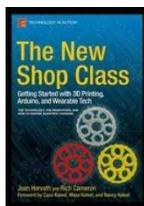
"*Metal technics, 2nd edition* is the revised text of this very successful book which covers the Industrial Arts syllabus for New South Wales and Queensland schools. The new edition offers students a comprehensive text, giving the latest

information in the area of production and structure of metals, workshop tools, power mechanics and safety in the workplace." – Back cover.



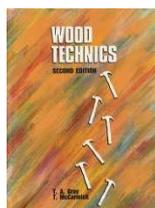
**Metalwork for schools** by the Technical Studies Committee, Metalwork Sub-committee. Rev. and metricated ed. Adelaide: Education Department of South Australia, 1979. 671 SOU

"[T]his text not only deals with tools and materials but is concerned with safe working habits, design method and technical drawings." – p. 1. For secondary school students.



**The new shop class: getting started with 3D printing, Arduino, and wearable tech** by Joan Horvath and Richard Cameron. New York: Springer, 2015. 621.9 HOR

"*The new shop class* connects the worlds of the maker and hacker with that of the scientist and engineer. If you are a parent or educator or a budding maker yourself, and you feel overwhelmed with all of the possible technologies, this book will get you started with clear discussions of what open source technologies like 3D printers, Arduinos, robots and wearable tech can really do in the right hands." – Publisher website.



**Wood technics** by T.A. Gray and T. McCormick. 2<sup>nd</sup> ed. Milton, Qld: Brooks Waterloo, 1989. 674 GRA

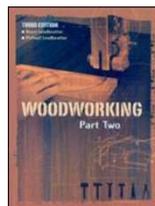
"*Wood technics, 2nd edition* is the revised text of this very successful book which covers the Industrial Arts syllabus for New South Wales and Queensland schools. The new edition offers

students a comprehensive text, giving the latest information in the area of timber, building materials, building methods, and construction and safety in the workplace." – Back cover.



**Woodworking: part one** by Bruce Leadbeater, Michael Leadbeater, John Keable; Tony Clarke, adapting editor. 3<sup>rd</sup> ed. North Ryde, NSW: McGraw-Hill Australia, 2007. 674 LEA

"This classic text has been revised to cover the Industrial Technology and Design and Technology syllabuses for Years 7-10, but is also an ideal resource for senior students, amateur and professional craftspeople and woodworking enthusiasts." – Back cover.



**Woodworking: part two** by Bruce Leadbeater and Michael Leadbeater. 3<sup>rd</sup> ed. South Melbourne, Vic: Nelson Cengage Learning, 2010. 674 LEA

"[R]ewritten for the new Senior Preliminary and HSC Syllabuses for Years 11-12 ... Features: Up-to-date material on machinery, techniques, hardware, power tools; Gallery of designs and ideas by Australian craftsmen; Forestry in Australia; Emphasis on creativity in the classroom; Revised activities and review questions; New contemporary projects, cabinet and furniture design; Emphasis on the principles of design and techniques to suit Industrial technology and Design and technology; Increased use of technology and website references; Revised information relating to the timber industry and environmental issues." – Back cover.