

TECHNOLOGY**AIRCRAFT**

Langley, A. 629.13334 LAN
Simple, clear and colourful illustrations provide an introduction to powered flight. Junior-middle primary.

AIRCRAFT

Morrissey, D. 387.7 MOR
The history, modern development and social and environmental effects of aircraft. An informative, well illustrated book for middle-upper primary.

ALL CHARGED UP (What a wonderful world series)

Thomas-Cochran, M. 537 THO
Part of an excellent series for years 3-7, this book on electricity holds well presented, interesting, informative text; explicit colour illustrations, diagrams and photographs; glossary and index; and is enlivened by humorous cartoons, comments and pictures.

ASSESSMENT SUPPORT MATERIALS FOR TECHNOLOGY AND ENTERPRISE

National Professional Development Program 607 ASS
This document is designed to assist teachers in making informed assessment decisions when using the Student Outcome Statements. It identifies assessment issues that face the Learning Area, discusses the principles of assessment, presents a model for developing a classroom program and provides assessments examples. In the final section, an examination of the conceptual framework of constructivism within the Learning Area of Technology and Enterprise is developed by Paul Newhouse.

BEYOND THE FLAME

Atherton, G. 622.3385 ATH
The story of Australia's North West Shelf Natural Gas Project.

THE BIG KIT OF TECHNOLOGY

Hodge, L. 607 HOD
A cross curricular kit providing an integrated approach to the introduction of technology education to upper primary students. The kit consists of a big book (available separately), 16 literature based theme books (4 X 4 titles) and a resource manual of blackline masters incorporating program frameworks, focus questions and technology activities.

BIOENERGY

Houghton, G. 333.9539 HOU
As fossil fuels run out modern research into the possibility of using bioenergy, (the earliest source of power known to man), has resulted in a number of new developments. Simple language, colour diagrams and illustrations in this well set out book for upper primary.

BICYCLES - ALL ABOUT THEM

This is a book on how to get the best of your bicycle. 629.2272 BIC

BIKES

Parker, V. 629.2275 PAR
Amazing pictures show all kinds of bikes in action, from superbikes to dragsters and Grand Prix racers. A highly appealing book with large, eye catching pictures, concise text with clear headings and 'fast facts' boxes, Useful as a high interest, low vocabulary resource. Junior primary.

BREAD

Baskerville, J. 641.331 BAS

TECHNOLOGY AND ENTERPRISE/TECHNOLOGY

Information on the many different kinds of bread and how bread is made in a modern bakery, plus lots of ideas for things to do. Useful at all primary levels.

BUILDING

Haslam, A.

624 HAS

Using a hands-on approach, this book covers activities such as making dams, joints, lock gates, tower cranes, aqueducts, suspension bridges, roof frames, igloos and space modules. Step-by-step instructions and coloured photographs make this an easy book to use and students are encouraged to experiment and evaluate their models. An introductory section deals with various construction materials and the tools needed to carry out the projects. Middle primary-lower secondary.

CARROTS, KITES AND TRAFFIC LIGHTS

Harriman, Susan. 1996.

607.1 HAR

Presents 5 innovative technology units for use by teachers of years 4-7.

Engaging classroom activities. Suggested approaches to assessment. Annotated samples of student work. Practical suggestions for technology unit planning and classroom management.

CARS IN AUSTRALIA

629.222 CAR

Brief history of the different models and makes of cars. Upper primary.

COMMUNICATIONS

Dixon, M.

302.2 DIX

Communication technologies - from simple signalling devices to space satellites - how they have developed and how they work. Included in the book are many projects designed to encourage the reader to explore basic design and technology concepts. Upper primary.

COMPUTERS AND LEARNING IN THE FIRST YEARS OF SCHOOL

Porter, R.

372.1334 POR

A beginners' guide providing practical ideas for using computers in the first years of school.

COMPUTER LITERACIES – WORKING EFFECTIVELY WITH ELECTRONIC TEXTS

Corbell, Chris.

371.334 COR

Computer Literacies Office 97 version is an activity-based course for those who need to work more efficiently and effectively with computers. Its text-based focus makes it of particular interest to language and literacy teachers as well as to any teacher needing to teach Microsoft Office 97 applications.

CREATING A TECHNOLOGICALLY LITERATE CLASSROOM

Garfield, G

371.3078 GAR

Practical suggestions for integrating technology (computers, videos, television, CD-ROM, audiocassettes, cameras, Internet, E-mail) into the classroom. It includes easy-to-follow ideas on how to physically organise the classroom; how to ensure each child has access to the technology; and useful sample lesson plans demonstrating how different technological tools can be utilised throughout the curriculum to facilitate student learning. Lower primary to lower secondary.

CREATIVE COMPUTING

004.16 WIC

This book for teachers of years K-5 suggests ways of introducing information technology and using technology across the curriculum. Some of the activities are intended to increase the children's understanding of technology itself, but most are intended to support curriculum activities in a way that enhances learning and extends the range of work the children can undertake.

CUTAWAY SPACE VEHICLES

Richards, J.

629.47 RIC

There have been many different types of space vehicles, from V2 rockets, Sputnik and Vostok One in the earliest days of space exploration and travel, to Hubble, Pathfinder and the International Space Station to be built by countries all over the world. Find out about the jobs that

space vehicles do – exploring planets, carrying astronauts, helping communications and more - and see what goes on inside space vehicles through detailed full colour illustrations. Middle primary.

DESIGN AND TECHNOLOGY KEY STAGE 2

607 BEN

A resource book, for teachers of 7-11 year olds, which can be used as either a core resource or as a flexible ideas bank. It includes both topic assignments and focused practical tasks which help develop design and technology skills. The book is structured around the following sections: Key lessons in designing and making skills; Investigating tasks; Focused practical tasks; Design and make assignments; Techniques, tools and storage; and Resources.

DESIGNING AND MAKING

Stein, G.

607.36 STE

A range of ideas for Technology and Enterprise design projects based around themes. Each theme allows for cross curriculum links and the development of an integrated program. It has an easy to use layout and extension activities to generate many related ideas. Middle/upper primary.

DESIGNING & MAKING

607.36 STE

A full colour book brimming with ideas for projects focused on practical tasks, children's own evaluation of projects, step by step guidance for teachers, ideas for extension activities and colourful diagrams that demonstrate methods.

DESIGNS ON TECHNOLOGY

Clayfield, H.

745 CLA

An introduction for primary teachers. It explains how technology can be taught and how it can be incorporated into other areas of the curriculum. 24 units of work, which can be adapted to suit any year level, are presented together with a list of materials needed, step-by-step instructions and suggestions for further investigations.

EARLY SIMPLE MACHINES

Lego Dacta

621 EAR

Hands on activities for lower primary. Children can copy plans of working models using big gears, levers and pulleys. They can also invent their own machines to solve the problems suggested on the activity cards. A teacher's guide is also available.

ELECTRICITY

Williams, J.

537 WIL

A simple, practical guide to finding out about electricity. How to wire up electric circuits and make switches, testers, magnets and all kinds of electrical toys. Teacher's notes and glossary included. Middle/upper primary.

ENERGY

Hawkes, N.

333.79 HAW

The latest ideas on how to use renewable energy sources and energy supplies for the future are discussed in this book. Chapters on recycling, biomass, wind and wave energy, hot rocks and fuel cells are also included. Coloured illustrations, photographs, cut-away diagrams and flow charts provide excellent motivational material. Upper primary/lower secondary.

EXPLORING EXPLANATIONS ABOUT ELECTRICITY

Christie, F.

537 EXP

Electricity makes things push and pull, stop and start, open and close, act and react. This book aims to assist children to understand how and why electricity works and to be able to write an explanation on how it works. It includes lots of interesting information and excellent colour photographs and diagrams. Upper primary.

FINAL FRONTIERS: SPACE

Williams, L.

520 WIL

TECHNOLOGY AND ENTERPRISE/TECHNOLOGY

The opportunities, dangers, and excitement of man's quest to reach the last frontier - space. A lavishly illustrated book packed with information, for upper primary.

FIRE

Barlow, A.

994.004 BAR

How fire was used by traditional Aborigines and how it is used today. A wide range of topics is covered, including making fire, controlling fire, farming, cooking, as a tool and in myth and ritual. Information is clearly presented and coloured photographs add interest to the text. Middle primary-lower secondary.

FLIGHT

Christie, L.

629.13076 CHR

Lots of ideas relating to the topic 'Flight'. This book also helps teachers to plan for primary science teaching at all levels.

FLIGHT

Gwynn-Jones, Terry.

629.132 GWY

Large, coloured illustrations and photographs and well written text feature in this comprehensive book which explores how things fly and ways of using air and wind for flight. It looks at the pioneers of aviation and their aircraft, and gives the inside story on various types of aircraft – their design and purpose, cockpits, airports, etc. Middle - upper primary level.

FLIGHT

Haslam, A.

629.132 HAS

What keeps an aeroplane up in the air? How does a helicopter fly backwards? What makes an arrow fly straight? Using an activity based approach, this book explores flight from the boomerang to the space shuttle. It investigates different ways of resisting gravity, different sources of power and how flying objects can be controlled. The format is attractive with step by step instructions illustrated by brightly coloured photographs for the twenty projects presented, each set out on a double page spread. Upper primary.

FLYING STARTS HERE

Slack, D.

629.132 SLA

Enables students to discover how an aerofoil works, how an aircraft is controlled and how it is propelled. Teachers' notes and reproducible pages. Upper primary.

FROM RAIN TO TAP

Gordon-Smith, C.

628.107 GOR

Demonstrates the physical properties of water through practical activities. Discusses the water cycle, domestic water supply and disposal. Teachers' notes and reproducible pages. Yrs 3-5.

GAS THE NATURAL CHOICE/BLUE FLAME ENTERS THE GAS ZONE

Australian Gas Association

328.27285 GAS

Resource kit on natural gas. It includes teacher's notes, a wall chart, pupils' work cards, 30 copies of an informative, comic book style booklet, plus a video on the development of the gas industry - its history and its future. Middle primary-lower secondary.

GEAR GO

621 GEA

A variety of models can be built with these unique building blocks. Each time the gears are put in a different order, children can observe the gears turning at a different speed in the model. 343 pieces, plus drive box.

GEARIOS

(EC)

A versatile construction kit that constantly adapts as children develop. It consists of durable plastic blocks and gears which can be made into mechanised models. A simple turn of a gear and the model springs to life. K-3.

GETTING STARTED IN TECHNOLOGY AND ENTERPRISE

Bana, J. 607.1 GET
 A report on the experiences of five Western Australian schools, primary and secondary, which were involved in a year long school based professional development program in the Technology and Enterprise Learning Area. Four of the schools introduced Technology and Enterprise programs for the first time while Ballajura already had a substantial program in place.

GOLD

Morrissey, D. 669.22 MOR
 A history of gold discovery and gold mining in Australia. Primary.

HANDS ON SCIENCE SERIES

WIND TO FLIGHT	621.45 WIN
SOUND WAVES TO MUSIC	534 ARD
MUSCLES TO MACHINES	531.1 ARD
RAIN TO DAMS	532 TWI
RAINBOWS TO LASERS	535 WHY
MAGNETS TO DYNAMOS	537 MAG
BURNING AND MELTING	536 LAF

This series of books introduces basic scientific concepts and explains their uses in everyday life, from simple projects, which the reader can observe or try out for themselves through to large scale technology.

THE HISTORY OF SPACE TRAVEL

Flynn, R. 629.4109 FLY
 The story of how men and women overcame the difficulties and dangers of space travel, and a look at what may happen in the future. Includes glossary and index and colourful, informative illustrations. Upper primary/secondary.

HOMEMADE HOUSES

Nicholson, J. 728.37 NIC
 Tents, yurts, igloos, mudhifs, minkas, log houses . . . how they are made and why. A fascination book for middle/upper primary.

HYPERLEARNING

Jeffrey, D. 371.33467
 Where Projects, Inquiry, and Technology meet.

I CAN MAKE MY ROBOT DANCE : TECHNOLOGY FOR 3-8 YEAR OLDS

Fleer, M. 607.1 FLE
 15 innovative technology units providing a range of hands-on approaches to teaching technology and offering interesting and practical ways to integrate technology education into existing teaching programs.

I DIDN'T KNOW THAT A TRUCK CAN BE AS BIG AS A HOUSE

Petty, William 629.224 PET
 A visually appealing book, with minimal text, that compares different trucks as to their function, speed, size and power. Each double page spread features colourful illustrations, diagrams, quizzes and things to do. Junior/middle primary.

IDEAS FOR TECHNOLOGY

Jakab, C. 607 JAK
 160 design briefs covering 10 topics and 4 levels from K-6. Each area focuses on everyday items and draws from the interests of children. There are integrated maps for each topic detailing possible cross-curricula links and ideas for assessment, evaluation and record keeping.

INGENIOUS! (cd-rom)

507.2 ING (CD)

This award winning cd-rom is designed to promote innovative thinking and an understanding of the process of science. It provides an interactive adventure which challenges 8 – 14 year olds to investigate five real life science challenges: An endangered species in the Northern Territory; Dead pilchards washed up on South Australian beaches; Designing a solar powered car to race from Darwin to Adelaide; Bushfires threatening the town of Dwellingup; and Searching the universe for extraterrestrial intelligence using the Parkes Radio Telescope. Players get to face the same dilemmas and choices as the actual scientists who worked on each case.

THE INTERNET IN THE CURRICULUM- A PROFESSIONAL DEVELOPMENTPROGRAM

EDWA 1997

371.334

Using the Internet to improve student learning. This Facilitator's File contains background information to present raining on

- Searching the internet
- Email
- PD on the Web
- Research
- Collaborative Projects
- Publishing

THE INTERNET AND INSTRUCTION : ACTIVITIES AND IDEAS

Barron, A.

3

71.334467 BAR

A readable, informative, accurate and relevant book about the Internet, designed for all teachers from pre-primary to year twelve. It would be useful to both beginning computer users and to those wanting to improve their use of the Internet. An overview is given of hardware, software and factors involved in navigating the net. However, the bulk of the book is devoted to providing ideas, activities, and lesson plans that encourage teachers to successfully incorporate the Internet into the curriculum to improve student learning across all areas of the curriculum.

INTERNET FOR KIDS

Haag, T.

004.678 HAA

The first half of this book explores the access tools of the Internet - electronic mail, file transfer protocol, Usenet newsgroups, Gopher, video chat and Telnet. The second provides a review of web sites. Each review includes a brief overview of the site, a suggested activity (usually collaborative), site highlights, and at least one other related site.

INTERNET FOR KIDS: INTERMEDIATE

Haag, T.

004.678 HAA

A practical hands on tour of the Internet for teachers. The topics covered will reinforce what you are already doing in your classroom and include some high interest classroom projects that are fun and challenging.

INTERNET GUIDE FOR TEACHERS, STUDENTS & PARENTS

Neely, M.

004.678 NEE

Down-to-earth advice on teaching students responsible computing skills, designing lesson plans, publishing a student newspaper on the Internet. It also gives information on composing search queries and using the Web as a search tool and how to make contact with other teachers and students around the world to share ideas and experiences.

INTERNET MANUAL FOR TEACHERS: ACCESS SKILLS AND CURRICULUM

STRATEGIES

Carrucan, T

004.67 INT

This practical manual includes two computer disks (for IBM and Apple Mac) containing a selection of acceptable use policies to assist schools with Internet policy decisions; hotlinks to useful Internet sites; an HTML and a search engine tutorial; and a graphic converter program for

TECHNOLOGY AND ENTERPRISE/TECHNOLOGY

converting images into a format used on Web pages. The first part of the manual deals with access skills – setting up procedures, etiquette, using e-mail etc. The second and major portion of the book is concerned with curriculum strategies and resources and how to integrate the Internet into existing curriculum to improve student learning outcomes.

INTERNET TASKS FOR SECOND LANGUAGE STUDENTS

Cohn, D.

025.06418 COH

A compilation of student activities that incorporate the Internet into the classroom and make learning meaningful and fun. The text is seamlessly integrated with its supporting web site to help students navigate self guided activities using click-on icons for instant visual recognition. Chapters begin with clearly stated aims to promote student focus. Instructions and tips are given for the work sheets and each chapter concludes with a follow-up activities page of creative projects which suit the diversity of student's multiple intelligences.

INTRODUCING AIR POWER

607 INT

Lego Dacta sets for years 5 and 6, plus teacher's guide. Enables the introduction of pneumatic principles through the building of simple working models. The Centre now has 15 sets.

INTRODUCING TECHNOLOGY EDUCATION R-7

607.12 INT

Dept. for Ed. and Children's services South Australia

This plain language guide to technology in the classroom provides practical help with planning a technology program, including hints and tips on topics and tools. It includes a section of case studies of existing programs in small and large urban and rural schools, including remote Aboriginal schools.

INVESTIGATING TECHNOLOGY BOOK 1

INVESTIGATING TECHNOLOGY BOOK 2

Fisher, R.

607 FIS

Each of these two books offers a collection of problem-solving activities for use with primary school children. Each problem is set out as a double page spread. Students are set a challenge, encouraged to create a design proposal, plan and make their product and then evaluate their work. A 'further activities' section is included to introduce new concepts and extend students. Book 1 is intended for years 3-5 and book 2 for years 4-7.

KITES AND FLYING OBJECTS

Robson, D.

745.592 ROB

Bright, colourful book which moves through construction procedure of simple flying craft to more difficult, elaborate kites and also provides snippets of advice, history and hints. No elaborate or expensive resources are required and explicit, numbered diagrams make directions easy to follow. All primary levels.

LEARNING IN AN ELECTRONIC WORLD : COMPUTERS IN THE CLASSROOM

Downes, T.

371.334 DOW

A book of practical advice for both novices and those language teachers who are experienced computer users and are keen to extend the range of text types and the variety of learning experiences available to their students. It shows how computers can be used to enhance and extend existing practices and planned outcomes by teachers at all primary levels.

LEARNING WITH INTERNET TOOLS: A PRIMER

Grabe, M.

371.334 GRA

A thought provoking, practical reference volume containing information on helping students to use the Internet for meaningful learning. Part one provides a description of the types of Internet resources and services that are available and suggests how these resources can be utilised for various learning activities. The emphasis is on providing meaningful opportunities for students to think, solve problems, apply knowledge and work cooperatively. Part two demonstrates how

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teachers can engage students in the process of creating multimedia for the World Wide Web. Middle primary – upper secondary.

LEGO DACTA CONTROLLED MACHINES 607 LEG LEGO DACT EARLY CONTROL ACTIVITIES

These sets have been designed to introduce children to programming and control technology without a computer. Build and control a lift, buggy, stage or dinosaur! Each set includes 4 activity cards and 220 elements including a 9 volt motor, lamp and sound element and is designed to be used with the Lego Technic Control Centre. The Centre holds six sets. The Early Control Activity Box includes a teacher guide and 3 levels of activity cards: Getting started (explanation cards), Building Instructions (to encourage application of skills) and Problem Solving (problem solving design briefs). For ages 8+.

LEGO DACTA PULLEYS 607 LEG

A simple introduction to pulleys in machines. The Centre has 16 sets, each containing building instructions for two simple models demonstrating the principles of pulleys. The accompanying teacher's guide is designed for the non specialist and gives a full explanation of the principles of pulleys.

LEGO TECHNIC 607 LEG

The Centre holds Lego Technic sets, Lego Technic Activity Centre, Lego Technic Resource Set and Lego Technic Control Centre. See also Early Simple Machines; Introducing Air Power

LINKING THE LEARNING AREAS- TECHNOLOGY EDUCATION

Technology Education Association of Victoria.1998 607 LIN

Linking the Learning Areas-Technology Education explores the benefits of incorporating Technology Education into integrated units of work in the compulsory years of schooling. The first three sections explain the theory behind integrating learning areas, the processes involved in planning and implementation. Sections 4-7 contain practical units of work and case studies, linked to the learning areas and content strands.

LIVING WITH ELECTRICITY

Ensing, J. 621.307 ENS

Familiarises children with basic electrical components and associated vocabulary - constructs simple circuits. Teachers' notes with reproducible pages. Junior/middle primary.

MACHINES

Baker, W. 621.8078 BAK

A hands on approach to learning science. Brightly coloured double page spreads, with step by step instructions, present model building activities that demonstrate such principles as why bicycles have gears, what makes a pendulum swing, how do pulleys make heavy loads lighter etc., and enable students to build some machines of their own. Upper primary.

MACHINES AND MOVEMENT

Taylor, B. 531.078 TAY

An attractive, well set out book with clear, simple directions, explanations and colourful illustrations, photos and diagrams. It provides lots of experiments and fun activities to help children to learn about levers, balancing, pulleys, gears, gravity etc. Junior and middle primary.

MACHINES AT WORK

Ward, A. 621.8078 WAR

This book explores the concepts and practical applications of levers, pulley systems, ramps and screws and cranks. A hands on approach is presented where students can follow step-by-step instructions and colourful illustrations to test various concepts and construct a range of models using readily available materials, and students are encouraged to think about the processes involved and the concepts being applied. Middle /upper primary.

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- MAKE IT SAFE
MAK
Safety guidance for the teaching of Design and Technology at Key Stages 1 and 2. 363.119371
- MARANDOO
Hamersley Iron Limited 622.341 MAR
The environmental research and management plans for Hamersley's proposed new mine at Marandoo.
- MARANDOO IRON ORE MINE AND CENTRAL PILBARA RAILWAY
Hamersley Iron Limited 333.765 HAM
Environmental review and management program overview.
- MATERIALS
Cox, E. 620.112 COX
Introduces materials used in everyday articles, making relationship between their properties and their uses. Teachers' notes and reproducible pages. Middle/upper primary.
- MATERIALS IN THE HOME
Induni, A. 620.1107 IND
Demonstrates the range of materials in everyday use, and some of the properties of these materials and the uses to which they can be put. Teachers' notes and reproducible pages. Yrs 4-7.
- MECCANO : EVOLUTION 4 607 MEC
Classic construction kit with metal parts. 306 pieces plus electric motor to build 50 models or more. Ages 8+.
- MINING
A selection of booklets on mining the different minerals.
- MINING
Underwood, G. 338.20994 UND
A comprehensive coverage of the mining industry in Australia, historically to the present day. The book looks at society's dependence on mineral resources, mining techniques, environmental impact, rehabilitation of mine sites, export earnings and mining and Indigenous Peoples. It includes case studies of sand mining on North Stradbroke Island, uranium mining at Ranger and the making of iron and steel. Upper primary/lower secondary.
- MOVING ON: ALL YOU NEED TO KNOW TO KEEP THE BALL ROLLING
Paige, K. 607 MOV
Designed to provide further ideas for teachers who have already begun to incorporate Technology and Enterprise into their classrooms, this book presents a wide variety of design briefs across all levels of the primary school, integrating content and skills from other learning areas. It is divided into four sections: Integrated Technology Topics, Information Technology, Methodology, and Design and Technology.
- NATURAL ENERGY
Dineen, N. 333.79 DIN
A well presented book with an easy to understand format for the younger reader. It describes how energy is collected and converted to useable power for everyday use. The accompanying coloured photographs, pictures and picto-diagrams are clearly labelled and captioned. Lower primary/middle primary.
- NORTH AMERICAN INDIANS
Haslam, A. 305.879 HAS

TECHNOLOGY AND ENTERPRISE/TECHNOLOGY

This book provides a series of projects that are designed to help students learn about and understand the Indian civilisation. It covers clothing, shelter, social groups, diet, entertainment and many other aspects of the Indian way of life. The layout features maps, photographs, step-by-step instructions and photos of models and artefacts to make, as well as useful and accurate information about the culture. Upper primary/lower secondary.

NORTH WEST SHELF GAS PROJECT

Woodside Offshore Petroleum

665.7 WOO

This student information pack includes a booklet, book and 18 information sheets. Learn about the history, operations and the future of the project.

OIL & NATURAL GAS

Dugan, M.

665.50994 DUG

From the 'Australian Fact Finders' series - primary.

POLLUTION

Amos, J.

363.73 AMO

Explicit text and appropriate illustrations provide an excellent introduction to the subject of pollution - what it is, what are the causes, what is being done and what can be done about it. Middle primary.

R-10 TECHNOLOGY : CLASSROOM GUIDES FOR TEACHERS

Dept. for Education & Children's Services, SA

607.1 R

Materials written by teachers to support the use of the Technology statement and profile for Australian schools. It includes an example of whole school planning structure, examples of units of work in the three content strands of information, materials and systems, and examples of integrated units of work. The appendices include a listing of the types of tools appropriate to each band, examples of classroom year programs and a list of readily available resources.

RACING CAR

Bingham, C.

629.228 BIN

A close up look at racing machines – cars, bikes and a racing truck. On each double page spread stunning photographs are combined with informative text and entertaining artworks to reveal how a particular kind of vehicle works and what it does. Useful at all levels.

RAMAGON - MARS COLONY COMMAND CENTRE

629 RAM

Build a space station with 2 colonists and explorer vehicle. A construction system, for ages 6+, to sharpen hand eye coordination and understanding of geometric and spatial relationships.

RECYCLING

Thomas, R.

363.7282 THO

The environmental advantages of reusing various kinds of waste material, how recycling is performed on a large scale, plus hints for recycling at home and at school. An illustrated, informative book for middle primary.

RECYCLING GLASS

Condon, J.

666.14 CON

The environmental problems resulting from the manufacture and disposal of glass and the ways in which recycling can reduce these problems. Suggestions for further reading and activities are included. Upper primary.

RIGBY REALIZATION

Big book sets (1 big book, 6 small books) covering a wide range of science and technology topics. They cover all primary levels and are designed to involve children in activities which use the skills and processes of science and technology and simultaneously develop their literacy skills. A full list of titles is given in the Shared Book section of this catalogue. A Teacher's Resource Book for the series is also available.

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ROARING ROCKETS

Mitton, T.

821.914 MIT

A single line of rhyming text plus large, bright, colourful cartoon style illustrations, provide a fun way to learn about space travel. K-1.

ROBOTS

Searle, R.

629.8 SEA

Explains how robots carry out complex tasks, why they are sent out into space and much more. Comes with the pieces to make a working robot that changes direction when it bumps into an obstacle. Upper primary.

SAVING HIERONYMUS

Commonwealth Dept. of Primary Industries and Energy

333.79 SAV

A cross curriculum educational kit on saving energy and the greenhouse effect. It includes a video, teaching guide, facts sheets, activity sheets and blackline masters. 9-11 year olds

SCIENTIFIC PROBLEM SOLVING : AN INTRODUCTION TO TECHNOLOGY

Mills, G.

507.24 MIL

15 topics arranged in two parts, Level 1 and Level 2, provide more than 60 carefully designed lessons designed to introduce students to the world of technology and foster creative, scientific thinking and problem solving skills. Each lesson has a complete set of instructions and patterns and detailed teacher's notes precede the work sheets for each level. Middle/upper primary.

SHAPING UP: A RESOURCE BOOK FOR PRIMARY SCIENCE

Keystone, D.

607 KEY

Suggestions and background material to assist primary students and teachers to explore, design and build an exciting range of technology projects. This book includes photocopiable pages and a section on assessment and evaluation.

SPACE

Haslam, A

520 HAS

Brightly coloured photographs and step by step instructions for projects to demonstrate scientific principles about space. Each model making activity is presented as a double page spread. An index and glossary are also included. Middle/upper primary.

SPACE ENDEAVOURS

629.4 AUD

Slides, audiotape and notes. Useful for the topics: exploring the moon; craters; survival; space exploration. Lower secondary.

SPACE SHUTTLE

Oxlade, C.

629.441 OXL

The different parts of the space shuttle, how they fit together and how they work are clearly illustrated and explained in this well set out book for junior – middle primary.

SPRINGBOARDS - IDEAS FOR USING COMPUTERS IN THE CLASSROOM

Bell, S. 371.334 BEL

Provides a sound and practical approach for teachers who are new to computers and their applications in the primary school.

TEACHERS AND TECHNO-LITERACY: Managing literacy, technology and learning in schools

371.334 LAN

Lankshear, Colin

A resource, which examines the use of technology in education. Drawing on detailed case studies, the authors show how schools in different settings can establish sustainable and appropriate

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technology infrastructure. They also show how to develop teaching practices, which not only enhance technology skills but a range of literacy skills as well.

A TEACHER'S GUIDE TO THE INTERNET : THE AUSTRALIAN EXPERIENCE

Ingvarson, D.

004.678 TEA

A demystified overview of the facilities afforded by the Internet with a focus on their relevance to teachers. The book identifies the problems and possibilities that exist for teachers and students and presents case studies, stories and checklists based on various schools' experiences. It offers several entry points, with advice and examples, to Internet activities suitable for classrooms.

TEACHING TECHNOLOGY AS A DESIGN PROCESS: THREE ACTIVITY BASED MODULES FOR YEARS 5 TO 8

Treagust, D.

607 TEA

Based on the philosophy that technology is about making, using and doing, the three modules in this book are activity based with a focus on the development of creativity and problem solving skills and have the design process as the central theme. Each unit includes teacher's notes and student activity sheets. The first module encourages children to design their own toys, the second focuses on the technology of enclosure design in zoos. The design of an all weather bicycle and suitable clothes for the rider is the theme of the third.

TECHNIQUES FOR TECHNOLOGY

607 TEC

Young children learn best through first hand practical experience. Problem Solving provides opportunities for this and as such is an essential element of good practice.

TECHNOLOGY AND ENTERPRISE FOR TEACHERS MASTEC

607 BAN (CD)

This multimedia cd-rom provides working examples to assist primary and secondary teachers implementing technology and enterprise programs in their classrooms. It is divided into five segments: Primary Education, Business Education, Computer Education, Home Economics and Design and Technology. The Primary Education section covers planning, design brief, skills, materials, tools and assessment, using video clips of an actual classroom to illustrate the process. Similarly, classroom examples are given to show the application of the technology process and the Student Outcome Statements to the other areas featured.

TECHNOLOGY CHALLENGES

Beale, G.

607 TEC

This book presents a collection of activities providing open-ended and divergent educational challenges for able learners.

TECHNOLOGY EDUCATION FOR EARLY LEARNERS

Pope, A.

607 TEC

A companion volume to *Introducing Technology Education R-7*, this book demonstrates how teachers can facilitate learning in technology without the need for highly developed specialist or technical knowledge. It provides guidance on methodology, materials and equipment, learning resources and safety issues, and includes lesson plans and a section on assessment, recording and reporting.

TECHNOLOGY KEY STAGE 1

Gadd, T.

607 GAD

An ideas bank for teachers of 5-7 year olds. The activities are based upon normal classroom practice with a strong emphasis on a thematic approach which allows technology to be linked across the curriculum. In addition to the two main sections - activities based on technology from themes and technology from stories - it also provides a free standing bank of challenges which children can undertake on their own, a section of useful ideas and techniques and checklists of tools and materials to use.

TEMPT TWO: TECHNOLOGY AND ENTERPRISE MATERIALS FOR PRIMARY
TEACHERS

Pritech 607 TEM

A practical classroom resource covering five broad themes – Music and dance; On the move; Keep it safe; Interactive books; and Shelters. Each unit provides a focus, across the curriculum links, useful resources and reading, pre-lesson skills, possible design briefs and criteria, materials and student and teacher assessment ideas. Adaptable for a range of levels.

TRANSPORT series

IN THE AIR 629.133 THO

TRAINS AND TRAMS 625.2 THO

ON THE WATER 623.8 THO

CARS AND BUSES 629.222 THO

TRUCKS AND VANS 629.224 THO

BICYCLES AND MOTORCYCLES 629.227 THO

Six books for junior primary, featuring clear, simple language supported by large colour photographs. Each examines various ways of moving people and freight, the parts that go together to make vehicles and the ways different vehicles are used. The books each have a table of contents, glossary and index.

TRANSPORT AROUND THE WORLD

Hall, G. 388 HAL

Large, clear, colour photographs with short, simple text show how people travel in different parts of the world. More information about each photograph is provided at the end of the book, for teacher use. Lower primary.

TRANSPORT ON LAND AND SEA

Hawkes, N. 388 HAW

A wealth of information on the very latest ideas in cars, buses, ships and trains: the ideas that will shape the transport networks of the future. Detailed labels and coloured photographs and drawings complement the text and it includes a chronology of technological development, an index and glossary. Upper primary/lower secondary.

THE TREES THAT WENT TO SEA

Lefroy, M. 623.8203

This picture book with text in English, Dutch and Indonesian tells the story of the voyage to Australia of the Dufyken in 1606, and the building of the replica of that ship and the re-enactment of that voyage. The Centre also has posters of the replica under construction and the completed ship under sail.

USING THE INTERNET IN THE PRIMARY CLASSROOM

Beazley, M. 371.334 BEA

Useful, practical information on how to incorporate the Internet into teaching and learning to improve student outcomes. The book begins with a brief introduction to the parts of the Net, followed by a justification for using it as a classroom tool. There are ideas on how to develop communication projects for reading and writing in a variety of text forms, developing an Internet user's policy, projects and lesson ideas for different learning areas, useful web addresses, and more. For teachers of K-7.

USING TOOLS IN THE CLASSROOM: R-7 TECHNOLOGY AND SCIENCE

McLoughlin, K. 621.9 MCL

The type of tools suitable for technology activities in the classroom, when to use them and safety considerations. A useful teacher reference, particularly for teachers lacking confidence and knowledge in the technology area.

TECHNOLOGY AND ENTERPRISE/TECHNOLOGY

VIEWPOINTS ON WASTE

Martin, R

363.73 MAR

(BB)

What are the problems with waste disposal? How should these problems be solved? Who is responsible for solving these problems? Six people, playing different roles, are interviewed about their opinions on these questions. A big book for upper primary.

WASTE AND RECYCLING

Amos, J.

363.728 AMO

Simple, concise text and colour photographs provide an excellent introduction to this topic. The book includes a glossary and index. Middle primary.

WATER CONSERVATION THROUGH GOOD DESIGN

WA Water Resources Council

333.9116 WAT

How to create attractive, urban environments which are appropriate to our arid climate.

WATER IN THE HOME

Thorne, M.

507 THO

Covers the concept of the water cycle, how water is made fit to drink, the house water system, waste water sewage etc. Teachers' notes and reproducible pages. Middle primary.

WHEELS

Pluckrose, H.

621.811 PLU

Simple text and explicit colour photographs to introduce and develop basic concepts. Junior primary.

WHEELS

Slack, D.

531.807 SLA

The unit offers a variety of interesting activities which can be linked with the topic 'land transport'. It covers many different aspects of 'the wheel'. Middle primary.

WIND ENERGY

333.92 RIC

WATER ENERGY

333.914 RIC

SOLAR ENERGY

333.7923 RIC

GEOTHERMAL ENERGY

333.88 RIC

Rickard, G.

Clear, informative, up-to-date text plus photos and diagrams in this excellent series on renewable energy sources. Middle/upper primary.

YOUNG SCIENTISTS EXPLORE INNER & OUTER SPACE

DeBruin, J.

629.4 DEB

Features science activity sheets which provide children with puzzles, cut outs, hidden pictures, grids charts, etc. Middle and upper primary.

YOUR WORLD - SPACE

Flynn, R.

629.4 YOU

A collection of true stories about space exploration, radio astronomy, rockets and comets, plus some exciting fiction and a space song. Upper primary/lower secondary.