# Primary science resources Catalogue

## Primary Science Teachers' Handbook

**Item No #PST1**

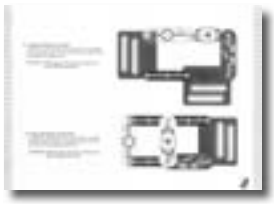
**$22** Members/subscribers
**$33** Non-members

This handbook contains practical ideas compiled from articles written by experienced teachers of primary science. It is a useful guide for those looking for different ways of approaching science in the primary classroom. Contents include:

- Science in the literacy block
- Inquiry-based learning
- Problem-based learning
- Scientific method
- Integrating ICT with primary science
- Getting involved with your professional association
- Science competitions and events
- Extending science beyond the classroom
- Resources lists

## Electronics kit: The Brainbox 188

**Item No #BB188**



**$38** Members/subscribers
**$45** Non-members
10% discount for 5+ items

**The fun way to learn the basic concepts of electricity and electronics**

All components have snap fasteners which make assembly very easy and quick. Components are colour and number coded so that young children (and adults!) can easily follow construction diagrams.

The instruction booklet is easy to follow and has 188 ideas for constructing different circuits on a base board. The circuits can be activated by magnet, water, light, touch or sound and produce different kinds of reactions such as flashing bulbs, motorized fans, flying discs and various sound effects. Examples include a water activated doorbell, sound activated doorbell, magnetically activated motors, and electric fan.

**Sample classroom activities** are included.

***Spare parts are available.*** *Contact STAV Publishing for a price list.*

## Concept cartoons in science education

**Item No #CC1**

**$80** Members
**$92** Subscribers/non-members

This is a 200 page blackline masters book consisting of science concept cartoons covering topics such as ecology, materials, electricity and magnetism, forces and motion, light, sound, the Earth and beyond, energy resources and energy transfer. The cartoons can be used at primary and secondary levels. Each cartoon is supported by teacher notes which include concise explanations of each concept as well as suggested strategies on how to use them effectively. The materials can be copied for educational purposes by the purchaser.

## Essential Science Skills

**Item No #ESSK1**


**$44.90** Members/subscribers
**$46.90** Non-members

### A toolbox for the middle years

*Essential science skills* is a 126-page black line masters book for use with years 5 – 7.

Developing science skills and knowing how to apply them is an essential part of learning about science. Science skills such as communicate, investigate, use ICT, use scientific knowledge and many more are presented as student handout sheets. These are complemented with classroom strategies for use by the teacher and student skill builder worksheets – ready for photocopying and instant use. Student skill builders provide usable examples of how the classroom strategies can be implemented; they demonstrate how to explicitly teach the strategies and provide students with many opportunities to use them. A series of matrices show links with VELS and how the skills and classroom strategies are linked.

**STAV Publishing**
Division of Science Victoria
PO Box 109 (5 Munro Street) Coburg VIC 3058
Phone: (03) 9385 3901 • Fax: (03) 9386 6722
Email: projects@stav.vic.edu.au • Website: www.stav.org.au

04/2009

## Discovering Science: Instant Lessons

Discovering Science is a series of six blackline master books designed to support teachers of primary science. The activities are ideally suited to teachers with a non-science background or who are inexperienced in teaching science. Each topic and activity has comprehensive supporting notes for the teacher, detailed equipment lists, step by step instructions and safety advice. The activities introduce students to a broad range of basic science concepts. They are fun, practical and encourage active involvement.

### Lower Primary

**$29.95 per book**
Member/subscriber
**$32.95 per book** Non-members

#### Book 1

**Item No #DS1**


On the rocks
Sowing seeds for the future
Slip, soaring away (force & motion)
Over water & under stone
Growing pains
Day & night
My lunchbox

#### Book 2

**Item No #DS2**


What fine threads you have there
Amazing air
Do the push, pull & twist
Splashing around
Mini Beast mania
Kitchen Chemistry
Waste not, Want not

#### Book 3

**Item No #DS3**

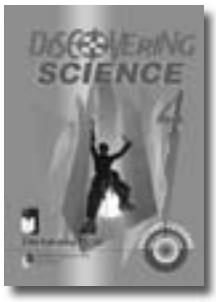

Fun with paper
Handy
Magnetic tricks
Balancing act
Soils, soils, soils
Get off the grass
Warm and windy

### Upper Primary

**$29.95 per book**
Member/subscriber
**$32.95 per book** Non-members

#### Book 4

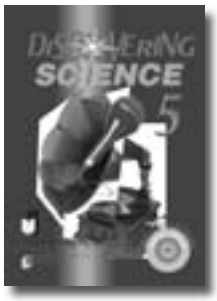
**Item No #DS4**




Fine feathery friends
When is a worm not a worm?
The wise buyer strikes again!
Here one moment, where the next?
Waste reduction through recycling
Sounding off!
Our solar provider

#### Book 5

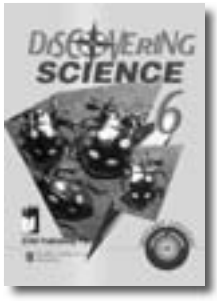
**Item No #DS5**




The human digestive system
Exploring sound
Square metre project
Greenhouse effect and global warming
Electro-magnetism
Sorting soil
Crystals
Worn by water

#### Book 6

**Item No #DS6**




Eat me, drink me
Stories from the earth
The great survivors
Paper: where would we be without it?
Electricity, you light up my life
What's missing?

## Illuminated pocket microscope

**Item No #MICRO1**

**$25** Memtbers/Subscribers
**$30** Non-members

10% Discount for 5+ items.

A small, portable microscope that is ideal for young children, adolescents and adults to investigate a multitude of items including clothing fibres, plants, insects or any other scientific specimen. There is no need for small extracted samples – simply remove the slide tray, walk around the room and place the viewfinder above the item you wish to view.

The microscopes are small (14cm x 4.5cm), light (80 grams) and easy to grip, maneuver and adjust. The light source is strong.

These small but powerful instruments are ideal for in the classroom, outside in the school yard, or for taking on excursions and fieldwork. They are fully portable and no bench or table is necessary for resting on.

### Features

- Zoom switch – adjusts magnification power (60x - 80x - 100x)
- Direct light source to specimen
- Removable slide tray
- Focus wheel.

The light operates from two AA batteries (not included).

**Sample classroom activities** are included.

## Science: Hands-on projects


Science: Hands-on projects uses model-making and art activities to foster an understanding of underlying scientific theories and concepts among middle and upper primary students. Visual and kinesthetic learners, particularly, benefit from the design–make–appraise learning approach.The activities will complement studies in matter, energy and force, living things, and Earth and space. A brief explanation of the topic and teaching and learning opportunities provide the teacher with starting points. The student activity pages consist of some background information, a list of materials, step-by-step instructions, questions for independent student discussion and photocopiable templates.Science: Hands-on projects is packed with creative and enjoyable tasks which focus learning and allow students to observe scientific principles in action.

Author: Mark Fox and Olga Fox

Publisher: Curriculum Corporation

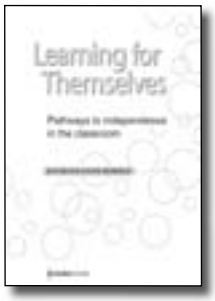
Description: 64 pp book

Members/subscribers **$31.95;**

Non-members **$34.95**

New

## Learning for themselves: Pathways to independence in the classroom




In a world of rapidly changing knowledge requiring new and transferable skills, classrooms are increasingly being viewed as places where students learn how to learn. Central to this objective is developing students' capacity to work independently and manage themselves as learners.

The learning tasks draw from commonly addressed topics in primary school curriculums and are designed to be adapted by students and teachers to suit particular interests and a range of teaching and learning goals.

The accompanying CD-ROM provides all learning task proformas as well as a further 28 proformas to assist teachers and students when planning, managing, monitoring and keeping records associated with independent learning.

Author: Jeni Wilson and Kath Murdoch

Publisher: Curriculum Corporation

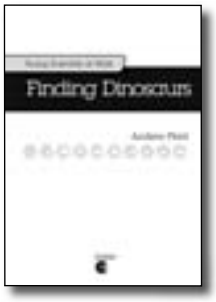
Description: 1 x CD-Rom, 128 pp book

Members/subscribers **$42.00**

Non-members **$45.00**

New

## Finding dinosaurs: Young Scientists at Work




Finding Dinosaurs introduces middle and upper primary students to the latest understanding of dinosaurs and other Mesozoic life.

The book is divided into 18 topics, each posed as a question for students to explore.Finding Dinosaurs encourages students to 'become scientists' – ask questions, propose and test theories, design experiments and discover for themselves the latest ideas about dinosaurs.

Author: Andrew Plant

Publisher: Curriculum Corporation

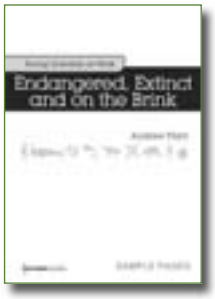
Description: 80 pp book

Members/subscribers **$31.95**

Non-members **$34.95**

New

## Endangered, Extinct and on the Brink: Young Scientists at Work




Evolution and extinction are a natural fact of life. The extraordinary diversity of life on our planet could not exist without them, and individual species are constantly evolving or becoming extinct. But are we on the brink of something more serious? Many scientists believe we are at the beginning of a new mass extinction and this time the cause isn't natural – it's us.

Endangered, Extinct and on the Brink introduces middle and upper primary students to the great problems facing our environment today by examining extinction events through time.

Fifteen topics are covered, and each topic includes:

- a reproducible student fact file with background information and illustrations to engage students
- a teacher information sheet covering key concepts, cross-curricular links and a materials list plus instructions for guiding students through the activity
- a reproducible student activity sheet with creative and fun investigations that will allow students to explore and explain the central concept, and then elaborate and evaluate their learning.

Author: Andrew Plant

Publisher: Curriculum Corporation

Description: 72 pp book

Members/subscribers **$31.95**

Non-members **$34.95**

New

## Activate Your Students: An inquiry-based learning approach to sustainability

**A series of three books: Lower Primary, Middle Primary and Upper Primary**


Activate Your Students: An inquiry-based learning approach to sustainability is a series designed to assist primary students in formulating, researching and responding to important questions about their world.


This series offers the following user-friendly model to step teachers through the important stages of problem- and inquiry-based learning:

- Stimulate
- Activate and communicate
- Plan and predict
- Investigate
- Record and report
- Connect
- Evaluate


Unit planning guides and templates help to embed the approach and will assist teachers in lesson planning and assessment.

The learning model encourages students to actively search for and construct knowledge and its meaning through a variety of research methods and resources. In focusing on a topic which is intimately relevant to students, it is hoped that they will own their new understandings and transfer the skills they have developed to other areas of study – while becoming committed stewards of the environment.

Author: Sharon Rushton

Publisher: Curriculum Corporation

Description: 72 pp book

Members/subscribers **$31.95 per book**

Non-members **$34.95 per book**

New

**For contents list and sample pages from these books go to www.stav.org.au and click on Publications and Resources**

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