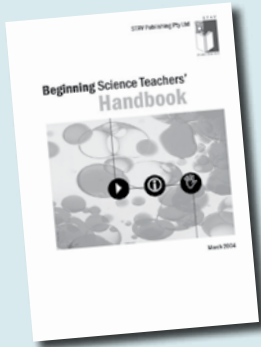


# Secondary science resources

## Catalogue

### Beginning Science Teachers' Handbook

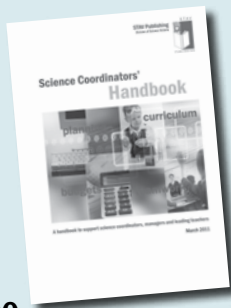


Members/subscribers **\$25.00**  
Non-members **\$35.00**

This handbook contains ideas, information and advice on how to cope in the first few years of teaching whilst at the same time improving your teaching and professional performance. The content includes:

- Learning the Science Faculty Ropes
- Classroom Management
- Teaching Classes of Mixed Abilities / Individual Differences
- Engaging and Extending Students in your Science Class
- Professional Conduct and Standards of Practice
- Science Safety
- Getting Involved with your Professional Association
- Getting the Best out of Extension Education
- Developing a Science Assessment Toolbox
- ICT in the science classroom
- Resources and Websites List.

### Science Coordinators' Handbook



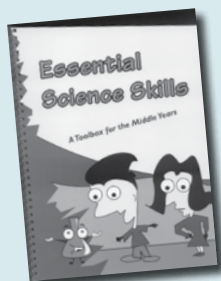
Members/  
subscribers ~~\$33.00~~  
**Currently \$26.40**  
Non-members ~~\$45.00~~  
**Currently \$36.00**

This handbook contains ideas, strategies and information relevant to leading and managing your science faculty. Suitable for inexperienced, experienced and aspiring coordinators. Includes a CD-Rom containing useful templates, samples and other tools.

Contents include:

- Raising the profile of science in your school
- Leading and managing your faculty
- Managing curriculum development and change
- Assessment: an integral part of science teaching
- Safety issues
- Laboratory management issues
- Program budgeting
- and more...

### Essential Science Skills



Members/  
subscribers ~~\$44.90~~  
**Currently \$38.16**  
Non-members ~~\$46.90~~  
**Currently \$39.86**

#### 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

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## Science Circles Books 1 and 2

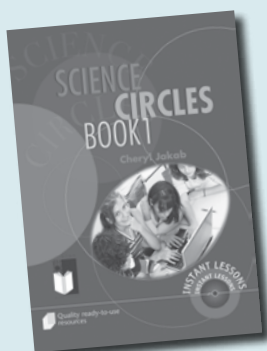
**These exciting books were produced by STAV Publishing and Blake Education.**

Science circles contains a wide range of classroom activities designed to engage students in extensive discussion while exploring science topics. The Science circles approach is developed from the concept that understanding is discourse-based. Scientific literacy is built when students can practise using correct terminology to give explanations and construct arguments based on evidence. The activities are intended to be used in conjunction with standard science textbooks and units. Using Science circles to complement other science activities and units of work will assist in the vital quest to make classroom science meaningful for each student, and develop a greater readiness to value and use science language and ideas in everyday life.

The main aim of the activities in Science circles is to provide a vehicle to help empower students to say what they think and how they feel towards their science learning, throughout a continuous process of concept and skill development. The activities enhance student talk, to prevent the spiral of silence that can surround teaching as concepts being covered increase in complexity. Science circles learning goes beyond simply presenting concepts and skills, to encouraging the development of a richer understanding of science as a reliable way of making sense of the world.

Both books are underpinned by VELS and PoLT principles and integrate well with the Australian Curriculum: Science. For more information and sample activity pages go to [www.stav.org.au](http://www.stav.org.au) and click on Publications and Resources.

### Science Circles Book 1



Members/subscribers **\$37.00**

**Currently \$34.15**

Non-members **\$39.95**

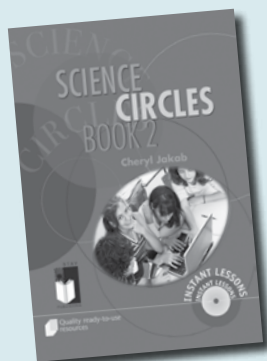
**Currently \$35.95**

*Suitable for years 7 & 8*

Contents:

The nature of science – Using science  
Biology – Classifying living things  
Biology – Units of life  
Chemistry – Units of matter  
Chemistry – Out of the mix  
Earth science – Cracked egg  
Physics – Looking at light  
Physics – Electric circuits  
Environment – Future energy supplies  
Astronomy – Earth, Moon and Sun  
Planning and self-evaluation

### Science Circles Book 2



Members/subscribers **\$37.00**

**Currently \$34.15**

Non-members **\$39.95**

**Currently \$35.95**

*Suitable for years 7 & 8*

Contents:

The nature of science – Working scientifically  
Biology – Body works  
Biology – Living plants  
Chemistry – Make mine metal  
Chemistry – Chemicals reacting  
Earth science – The Earth's top layer  
Physics – About heat  
Physics – Using machines  
Environment – Ecosystems  
Astronomy – Our solar system  
Planning and self-evaluation

## Electronics kit: The Brainbox



### Standard 188 Model

Members/subscribers **\$38.00**

**Currently \$30.40**

Non-members **\$40.50**

**Currently \$36.00**

15% discount for 5+ items

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

Learn about motors, switches, light, sound modules and sensors.

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.

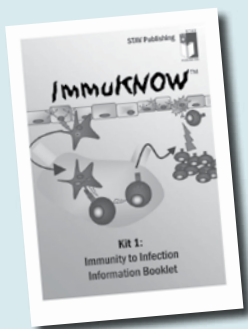
The instruction booklet is easy to follow and has 188 ideas for constructing different circuits on a base board. The circuits can be activated by magnet, water, light, touch or sound and produce different kinds of reactions such as flashing bulbs, motorized fans, flying discs and various sound effects.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

*Requires 4 AA batteries (not supplied).*

*Suitable for lower secondary.*

**Spare parts** are available. Contact STAV Publishing for prices.

## ImmuKNOW Kits



Item No #IMMU1 Kit 1

Item No #IMMU2 Kit 2

Item No #IMMU3 Kit 3

Members/subscribers **\$90.00**

Non-members **\$95.00**

### Teaching resource for Unit 3 Biology immunology concepts.

ImmuKNOW is an easy to use visual teaching resource with movable immune cell representations for use on whiteboards. Each component has a magnetic strip which allows it to be attached to magnetic whiteboards or any other flat steel surface.

ImmuKNOW is colourful, engaging and clearly visible. It allows easy visualization of receptor/cell interactions such as T-cell receptors and MHCs. It can be used by both teachers and students.

ImmuKNOW consists of 3 separate kits:

Kit 1 Immunity to infection

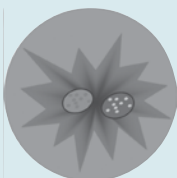
Kit 2 Allergy and allergic reactions

Kit 3 Humoral immunity

Each kit is accompanied by an instruction booklet.

**Discount:** Buy all 3 kits and receive a 15% discount.

## ImmuKNOW images available on CD



Images only:

Members/subscribers **\$100.00**

Non-members **\$105.00**

Hardcopy kit and images \$120 per kit

All of the images used for the three ImmuKNOW kits are available for purchase on CD.

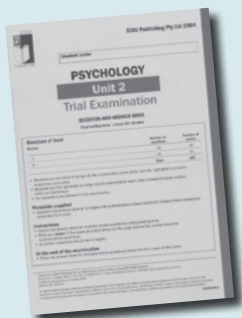
This will enable you to display and manipulate the images via a data projector or electronic smartboard. You will need to have your own software to import the images for display and manipulation. Images are provided as jpeg files only.

You can purchase images separately or you can make a combined hardcopy & images purchase. If you already own the hardcopy kit, the images are available to you at a greatly reduced price.

If you **already own the kit:**

Images only = \$30 per kit (GST inclusive)

## Trial exams



STAV Publishing produces VCE science Trial Exam papers and solutions for years 11 and 12 Biology, Physics, Chemistry and Psychology. New versions of these papers are released for sale each semester of each year.

*Order forms are posted on the STAV Publishing website ([www.sciencevictoria.com.au/stavpublishing](http://www.sciencevictoria.com.au/stavpublishing)) at the beginning of each semester.*

### # Please use the current Trial Exam order form.

Prices as per order form.

## Past trial exams

### Item No #TEPE1

#### Single copy:

**\$3.00** Papers

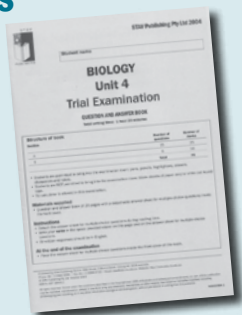
**\$1.50** Solutions

#### Bulk purchases

**(class sets of 10 or more):**

**\$2.00** Papers

**\$1.00** Solutions



Limited supplies of selected past VCE science trial exam papers and solutions are available for sale, individually or as class sets.

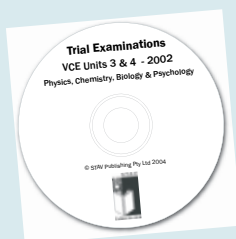
*Contact STAV Publishing for lists of available papers or download a form from the website ([www.sciencevictoria.com.au/stavpublishing](http://www.sciencevictoria.com.au/stavpublishing))*

## Past exams on CD-Rom

### Item No #TECD1

(For large orders, download a form from the website.)

**\$20** per exam.



A selection of past trial exams and solutions are available on CD-Rom. You can deliver these exams via your school intranet, save to hard-drive or disk, or print and photocopy class sets. Electronic copy and paste is prohibited.

Choose from:

Biology 2007 onward Units 1 – 4

Chemistry 2007 onward Units 1 – 4

Physics 2007 onward Units 1 – 4

Psychology 2007 onward Units 1 – 4

Note that the current year exams are not available.



## Illuminated pocket microscope



Members/subscribers **\$25.00**  
Non-members **\$30.00**  
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, manoeuvre 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).

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



Members/subscribers **\$31.95**  
Non-members **\$34.95**

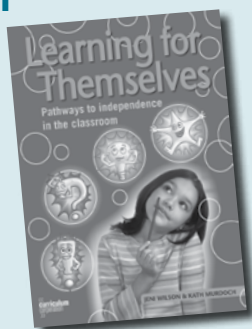
*Endangered, Extinct and on the Brink* introduces students to the great problems facing our environment today by examining extinction events through time.

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. Students are encouraged to 'become scientists': ask questions, propose and test theories, design experiments and devise their own solutions.

Suitable for lower secondary.

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



Members/subscribers **\$42.00**  
Non-members **\$45.00**

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 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.

Suitable for lower secondary.

### Science: Hands-on projects



Members/subscribers **\$31.95**  
Non-members **\$34.95**

*Science: Hands-on projects* uses model-making and art activities to foster an understanding of underlying scientific theories and concepts. Visual and kinesthetic learners, particularly, benefit from the design-make-appraise learning approach.

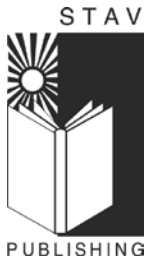
The activities will complement studies in matter, energy and force, living things, and Earth and space.

This fully reproducible resource allows students to construct and explore:

- recycled paper from old newspaper
- tools to analyse air and soil quality
- a kite to demonstrate aerodynamics
- basic tools to make images move
- a diorama to simulate camouflage
- a model showing symbiosis between fish and anemones
- an observatory to investigate a lunar eclipse
- a windmill to experiment with wind power.

*Science: Hands-on projects* is packed with creative and enjoyable tasks which focus learning and allow students to observe scientific principles in action.

Suitable for lower secondary.



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