

# **Physics**

## **Course of Study**

### **Resource List**

Prepared for the Curriculum Council  
by  
CURRICULUM MATERIALS INFORMATION SERVICES  
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## PHYSICS COURSE OF STUDY

### RESOURCES

This list of resources was prepared by officers from the Curriculum Standards Directorate (Curriculum Materials Information Services) in the Department of Education and Training. The list is presented in two parts:

**Part One:** Books, Videos, Computer Software

**Part Two:** Websites

Further details of each item can be found online on the CMIS Resource Bank, which is an online database. Links to this have been made from a Physics Course of Study webpage at:

[www.eddept.wa.edu.au/cmis/eval/curriculum/courses/physics](http://www.eddept.wa.edu.au/cmis/eval/curriculum/courses/physics)

In this database all of the Physics resources have also been linked to specific content or outcomes and can be accessed under these headings. The webpage also contains a list of Suppliers, Key Documents and Key Websites for quick access.

### PART ONE

#### PRINT, VIDEOS AND COMPUTER SOFTWARE

##### **Butler, Mark**

***Macmillan physics. 1 : preliminary course*** / Mark Butler, David Hopkins, John Willis.

South Yarra, Vic. : Macmillan Education Australia, 2000.

0-7329-5860-1

##### **Cahill, Jeff**

***Heinemann physics for Western Australia. 11*** / Jeff Cahill.

Port Melbourne : Heinemann, 2003.

1-7408-1101-1

***Heinemann physics for Western Australia. 12*** / Jeff Cahill.

Port Melbourne : Heinemann, 1998.

1-7408-1204-2

##### **Campbell, Rob**

***Physics alive!*** / Rob Campbell.

Auckland : Longman Paul, 1996.

0-582-85974-3

##### **Dobinson, Grahame**

***Instant lessons in physics. Book 1*** / Grahame Dobinson.

Strathfield, NSW : Emerald City, 1997.

1-87613-312-0

***Instant lessons in physics. Book 2*** / Grahame Dobinson.

Strathfield, NSW : Emerald City, 1997.

1-87613-313-9

***Gravitation*** [videorecording] / producer/director, Richard Leigh.

Bendigo, Vic. : Video Education Australasia, 2005.

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### RESOURCES

#### **Halpern, Alvin**

***3000 solved problems in physics*** / by Alvin Halpern.  
New York : McGraw-Hill, 1988.  
0-07-025734-5

#### **Heffernan, D. A.**

***Physics contexts. 1*** / David Heffernan ... [and others].  
South Melbourne : Pearson Education, 2002.  
0-7339-2656-8

***Physics contexts. 1. Teacher's resource*** [kit] / David Heffernan, Andrew Parker, George Pinniger.  
South Melbourne : Pearson Education Australia, 2002.  
0-7339-2810-2

***Physics contexts. 2*** / David Heffernan, Andrew Parker, George Pinniger.  
South Melbourne : Pearson Education, 2002.  
0-582-80677-1

***Physics contexts. 2. Teacher's resource*** [kit] / David Heffernan, Andrew Parker, George Pinniger.  
South Melbourne : Pearson Education Australia, 2002.  
0-7339-2811-0

#### **Hurst, Tim**

***Essential physics*** / Tim Hurst.  
Melbourne : Oxford University Press, 1994.  
0-19-553461-1

***Jacaranda physics. 1 : VCE physics units 1 & 2*** / Graeme Lofts ... [and others].  
Milton, Qld. : John Wiley, 2004.  
0-7016-3777-3

***Jacaranda physics. 2 : VCE physics units 3 & 4*** / Graeme Lofts ... [and others].  
Milton, Qld. : Jacaranda, 2004.  
0-7016-3790-0

#### **Johnson, Keith**

***Physics for you*** / Keith Johnson.  
Cheltenham : Nelson Thornes, 2001.  
0-7487-6236-1

#### **Madden, David**

***Physics : a contextual approach*** / David Madden ... [and others].  
Port Melbourne : Heinemann, 2004.  
1-7408-1225-5

#### **Matthews, B. A.**

***Introduction to physics : calculations*** / by B.A. Matthews, K.R. Winter.  
Kalamunda, WA : M.W.P. Associates, 1988.  
0-9592695-1-7

## PHYSICS COURSE OF STUDY

### RESOURCES

**McDermott, Lillian C.**

***Physics by inquiry. Volume 1 : an introduction to physics and the physical sciences*** / Lillian C. McDermott with Peter S. Shaffer and Mark L. Rosenquist and the Physics Education Group University of Washington.

New York : Wiley, 1996.

0-471-14440-1

***Physics by inquiry. Volume 2 : an introduction to physics and the physical sciences*** / Lillian C. McDermott with Peter S. Shaffer and Mark L. Rosenquist and the Physics Education Group University of Washington.

New York : Wiley, 1996.

0-471-14441-X

***Newton's laws of motion*** [videorecording] / producer/director, Richard Leigh. Bendigo, Vic. : Video Education Australasia, 2005.

**Nicholson, John**

***Practical experiments in physics. Book 2*** / John Nicholson, Craig Tilley.

Malvern, Vic. : Instant Lessons, 2003.

1-86509-706-3

***Physics*** / David Brodie ...[and others].

Harlow : Longman , 1996.

0-582-27984-4

***Physics. 1. Preliminary course*** / Michael Andriessen ... [and others].

Milton, Qld. : Wiley, 2004.

0-7016-3781-1

***Physics. 2 : HSC course*** / Michael Andriessen ... [and others].

Milton, Qld. : Wiley, 2003.

0-7016-3804-4

***Physics*** [electronic resource] : ***a contextual approach. Teacher's resource and assessment disk*** / David Madden ... [and others].

[Port Melbourne] : Heinemann, [2004].

1-7408-1350-2

***Physics impact : physics in context. Year eleven*** / editorial panel Richard Rennie ... [and others].

Perth : Science Teachers' Association of WA, 1998.

0-949820-30-X

***Physics investigations in context. Year twelve*** / editorial panel, Nic Sofoulis ... [and others].

Perth : Science Teachers' Association of WA, 1994.

0-949820-29-6

***Physics one : energy in everyday life, movement and electricity*** / Eddy de Jong ... [and others].

Port Melbourne : Heinemann Educational Australia, 1990.

0-85859-549-4

## PHYSICS COURSE OF STUDY

### RESOURCES

**Physics** [electronic resource] : **problems in context solutions. Year 11, Year 12.**  
[Osborne Park, WA] : STAWA, [2005?]  
0-949820-38-5

**Physics through applications** / writers: Ken Stewart ... [and others] ; editor: Jim Jardine.  
Oxford : Oxford University Press, 1989.  
0-19-914280-7

**Physics two : sound, electronics, electric power : motion, gravity, structures, light and matter** / Eddy de Jong ... [and others].  
Port Melbourne : Heinemann Educational Australia, 1991.  
0-85859-544-3

**Pingel, Chris**  
**Thermal physics** / Chris Pingel.  
Milton, Qld. : Jacaranda, 1994.  
0-7016-3268-2

**Pople, Stephen**  
**Physics** / Stephen Pople, Peter Whitehead.  
Oxford : Oxford University Press, 1996.  
0-19-914651-9

**Physics for Higher Tier** / Stephen Pople.  
Oxford : Oxford University Press, 2001.  
0-19-914822-8

**Storen, Alan**  
**Nelson physics : VCE units 1 & 2** / Alan Storen, Ray Martine.  
Southbank : Thomson Nelson, 2004.  
0-17-010852-X

**Nelson physics : VCE units 3 and 4** / Alan Storen, Ray Martine ; Neil Champion, Barry Plant, Michael Champion, contributing authors.  
South Melbourne : Nelson, 2005.  
0-17-010853-8

**Physics for senior students. Book 2** / Alan Storen and Ray Martin.  
South Melbourne : Nelson Australia, 1992.  
0-17-008645-3

**Tilley, Craig**  
**Practical experiments in physics. Book 1** / Craig Tilley, John Nicholson.  
Malvern, Vic. : Instant Lessons, 2003.  
1-86509-705-5

**Wilkinson, John**  
**Contextual physics. Book 1** / John Wilkinson.  
Melbourne : Longman, 1997.  
0-582-81089-2

## PHYSICS COURSE OF STUDY

### RESOURCES

***Contextual physics. Book 2*** / John Wilkinson.  
Melbourne : Longman, 1998.  
0-7339-0111-5

***Year 11 physics investigations in context*** / editorial panel Nic Sofoulis ... [and others].  
Perth : Science Teachers' Association of Western Australia, 1993.  
0-949820-22-9

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### PART TWO

#### WEBSITES

**About physics [website].**

New York, N.Y. : About.com, 2006-

<http://physics.about.com/mlibrary.htm>

**Australian Institute of Physics [website].**

[Melbourne] : Australian Institute of Physics, 2005-

<http://www.aip.org.au/>

**Flash animations for physics [website].**

Boston, Mass. : Dept. of Physics, University of Toronto, 2005-

<http://faraday.physics.utoronto.ca/GeneralInterest/Harrison/Flash/>

**PhET [website] : Physics Education Technology.**

Boulder, Colo. : University of Colorado, [2004?]-

<http://www.colorado.edu/physics/phet/web-pages/index.html>

**Physics central [website] : learn how your world works.**

College Park, Md. : American Physical Society, 2006-

<http://www.physicscentral.com/index.html>

**Physics resources on the web [website] : for high school physics classes / Steven Schafersman.**

[Texas] : CyberComputing Scientific Services, 2004-

<http://www.cybercomputing.com/physics/>

**Physics success stories [website].**

College Park, Md. : American Institute of Physics, 2006-

<http://www.aip.org/success/>

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### RESOURCES

**Physlets in the classroom [website].**

Boston, Mass. : Boston University, 2006-

<http://physics.bu.edu/~duffy/classroom.html>

**Practical physics website [website].**

London : Nuffield Foundation, 2004-

<http://www.practicalphysics.org/>

**The School of Physics [website].**

Sydney : School of Physics, University of New South Wales, 2006-

[http://www.phys.unsw.edu.au/PHYSICS\\_!/physics\\_!.html](http://www.phys.unsw.edu.au/PHYSICS_!/physics_!.html)

**UIC [website] : Uranium Information Centre.**

Melbourne : Uranium Information Centre, 2006-

<http://www.uic.com.au/education.htm>