

Engineering Studies  
Stage 6 Syllabus Resources

**Suggested references for syllabus topics:**

The revised syllabus may be implemented without significant change in the level of resources. Below is a list of texts and resources commonly used in schools, together with some additional suggested resources. These have been linked to topics in the revised syllabus. Schools may select from the table below to supplement existing resources if necessary.

Syllabus Content	Resource / Reference
Preliminary Engineering Application Module 1 Household Appliances Historical and societal influences	Norman, D A, <i>The Design of Everyday Things</i> , Currency Doubleday, 1990 ISBN 0 3852 6774 6
	Johnston, S, Gostelow, P & Jones, E, <i>Engineering and Society – an Australian Perspective</i> , Longman, 1999 ISBN 0 5828 1171 6
Preliminary Engineering Application Module 1 Household Appliances Engineering mechanics and hydraulics	Bolton, W, <i>Engineering Science</i> , 3 <sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4
	Schlenker, B R & McKern, D, <i>Introduction to Engineering Mechanics</i> , Jacaranda Press, 1979 ISBN 07076 1224 X
	How Stuff Works <a href="http://howstuffworks.com/index.htm">http://howstuffworks.com/index.htm</a>
Preliminary Engineering Application Module 1 Household Appliances Engineering materials	Bolton, W, <i>Engineering Materials Technology</i> , 3 <sup>rd</sup> edn, Butterworth, Heinemann, 1998 ISBN 0 7506 3917 2

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Schlenker, B R, <i>Introduction to Materials Science</i> , John Wiley & Sons, 1974 ISBN 0 471 76177 X
	Classroom Video, <i>Washing Machine-Design and Manufacture</i> (video, 28 min) 1999
	Frequently Asked Questions <a href="http://www.aiaa.org/information/student/ae_faq.html#8">http://www.aiaa.org/information/student/ae_faq.html#8</a>
	Massachusetts Institute of Technology, Department of Material Science & Engineering <a href="http://www-dmse.mit.edu">http://www-dmse.mit.edu</a>
Preliminary Engineering Application Module 1 Household Appliances Engineering electricity / electronics	Fletcher, R & Warner, N, <i>Introducing Design in Electronics</i> , Jacaranda Wylie, 1996 ISBN 0 7016 3281 X
	Batty, Ian, <i>Electrical Principles</i> , Prentice Hall, 1996 ISBN 0 7248 0389 0
	Product Web <a href="http://www.productweb.com:80/f3/c892.cfm">http://www.productweb.com:80/f3/c892.cfm</a>
	An Introduction to Electronics <a href="http://www.scimedia.com/chem-ed/electron/electron.htm">http://www.scimedia.com/chem-ed/electron/electron.htm</a>
Preliminary Engineering Application Module 1 Household Appliances Communications	Classroom Video, <i>Technical Graphics</i> (video, 20 min), 1990

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 2</i> , Longman Cheshire 1982 ISBN 0 582 66187 0
Preliminary Engineering Application Module 2 Landscape Products Historical and societal influences	Johnston, S, Gostelow, P, & Jones, E, <i>Engineering and Society an Australian Perspective</i> , Longman, 1999 ISBN 0 5828 1171 6
	H R Products <a href="http://www.hrproducts.com.au/hr_products.html">http://www.hrproducts.com.au/hr_products.html</a>
Preliminary Engineering Application Module 2 Landscape Products Engineering mechanics and hydraulics	Bolton, W, <i>Engineering Science</i> , 3 <sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4
	Schlenker, B R & McKern, D, <i>Introduction to Engineering Mechanics</i> , Jacaranda Press, 1979 ISBN 0 7076 1224 X
	Ivanoff, V, <i>Mechanical Engineering Science</i> , McGraw Hill, 1998 ISBN 0 07 451005 3
Preliminary Engineering Application Module 2 Landscape Products Engineering materials	Bolton, W, <i>Engineering Materials Technology</i> , Butterworth, Heinemann, 1998 ISBN 0 7506 3917 2
	Schlenker, B R, <i>Introduction to Materials Science</i> , John Wiley & Sons, 1974 ISBN 0 471 76177 X

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Hull, D, <i>An Introduction to Composite Material</i> , Cambridge University Press, 1996 ISBN 0 5213 8855 4
	V C Media Pty Ltd, <i>Recycling</i> (video,12 min), 1990
	Massachusetts Institute of Technology, Department of Material Science & Engineering <a href="http://www-dmse.mit.edu">http://www-dmse.mit.edu</a>
Preliminary Engineering Application Module 2 Landscape Products Communications	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 2</i> , Longman Cheshire, 1982 ISBN 0 582 66187 0
	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 3</i> , Longman Cheshire, 1982 ISBN 0 582 66529 9
	Standards Association of Australia, <i>Technical Drawing for Students, HBI</i> , Standards Association of Australia and Standards New Zealand, 1994 ISBN 0 726 29196 X
	Standards Association of Australia, <i>Mechanical Drawing Practice for Trade and Tertiary Students</i> , Standards Association of Australia, Sydney, 1986 ISBN 07262 404 27
	Standards Association of Australia, <i>Design Standards for Mechanical Engineering Students</i> , Sydney: Standards Association of Australia, 1985 ISBN 0 726 239 887

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
Preliminary Engineering Application Module 3 Braking Systems Historical and societal influences	<i>Microsoft Encarta Encyclopedia</i> , Microsoft Corporation Web: <a href="http://www.encarta.msn.com/">http://www.encarta.msn.com/</a>
	Johnston, S, Gostelow, P & Jones, E, <i>Engineering and Society – an Australian Perspective</i> , Longman, 1999 ISBN 0 5828 1171 6
	<i>Stop – Engineering Science Slide Kit</i> , Repco PBR
Preliminary Engineering Application Module 3 Braking Systems Engineering mechanics and hydraulics	Bolton, W, <i>Engineering Science</i> , 3 <sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4
	Schlenker, B R & McKern, D, <i>Introduction to Engineering Mechanics</i> , Jacaranda Press, 1979 ISBN 0 7076 1224 X
Preliminary Engineering Application Module 3 Braking Systems Engineering materials	Bolton, W, <i>Engineering Materials Technology</i> , 3 <sup>rd</sup> edn, Heinemann, 1998 ISBN 0 7506 3917 2
	Schlenker, B R, <i>Introduction to Materials Science</i> , John Wiley & Sons, 1974 0 471 76177 X
	Hull, D, <i>An Introduction to Composite Material</i> , Cambridge University Press, 1996 ISBN 0 5213 8855 4

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Massachusetts Institute of Technology, Department of Material Science & Engineering <a href="http://www-dmse.mit.edu">http://www-dmse.mit.edu</a>
Preliminary Engineering Application Module 2 Braking Systems Communications	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 2</i> , Longman Cheshire, 1982 ISBN 0 582 66187 0
	Standards Association of Australia, <i>Technical Drawing for Students, HBI</i> , Standards Association of Australia and Standards New Zealand, 1994 ISBN 0 726 29196 X
	Standards Association of Australia, <i>Mechanical Drawing Practice for Trade and Tertiary Students</i> , Standards Association of Australia, Sydney, 1986 ISBN 07262 404 27
	Standards Association of Australia, <i>Design Standards for Mechanical Engineering Students</i> , Standards Association of Australia, Sydney, 1985 ISBN 0726 239 887
Preliminary Engineering Focus Module 1 Bio-Engineering Scope of the profession	<i>Microsoft Encarta Encyclopedia</i> , Microsoft Corporation Web: <a href="http://www.encarta.msn.com/">http://www.encarta.msn.com/</a>
	The Bioengineering Group, inc. <a href="http://www.bioengineering.com">http://www.bioengineering.com</a>
	Biomedical & Human Factors Engineering, Wright University, Ohio <a href="http://www.cs.wright.edu.bhe.rehabengr">http://www.cs.wright.edu.bhe.rehabengr</a>

Engineering Studies  
Stage 6 Syllabus Resources

	<p>The Institute of Professional Engineers, New Zealand <a href="http://www.ipenz.org.nz">http://www.ipenz.org.nz</a></p>
	<p>Biomechanics World Wide in Frames <a href="http://www.per.ualberta.ca/biomechanics/bwwframe.htm">http://www.per.ualberta.ca/biomechanics/bwwframe.htm</a></p>
	<p>Biotechnology Sites <a href="http://www.cato.com/interweb/cato/biotech">http://www.cato.com/interweb/cato/biotech</a></p>
	<p>Engineering Links <a href="http://www.eng.uts.edu.au/links/">http://www.eng.uts.edu.au/links/</a></p>
<p>Preliminary Engineering Focus Module 1 Bio-Engineering Historical and Societal Influences</p>	<p>Nigg, B M &amp; Herzog, W, <i>Biomechanics</i>, John Wiley &amp; Sons, 1995 ISBN 0 471 944440</p>
	<p>Standard Biomechanical Engineering Division <a href="http://www.stanford.edu/group/biomech">http://www.stanford.edu/group/biomech</a></p>
<p>Preliminary Engineering Focus Module 1 Bio-Engineering Engineering mechanics and hydraulics</p>	<p>Hall, Susan J, <i>Basic Bio-Mechanics</i>, 3<sup>rd</sup> edn, Brown and Benchmark, 1995 ISBN 007 1153152</p>
	<p>Bolton, W, <i>Engineering Science</i>, 3<sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4</p>
	<p>Schlenker, B R &amp; McKern, D, <i>Introduction to Engineering Mechanics</i>, Jacaranda Press, 1979 ISBN 07076 1224 X</p>
	<p>Standard Biomechanical Engineering Division <a href="http://www.stanford.edu/group/biomech">http://www.stanford.edu/group/biomech</a></p>

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
Preliminary Engineering Focus Module 1 Bio-Engineering Engineering materials	Bolton, W, <i>Engineering Materials Technology</i> , 3 <sup>rd</sup> edn, Heinemann, 1998 ISBN 0750639172
	Schlenker, B R, <i>Introduction to Materials Science</i> , John Wiley & Sons, 1974 0 471 76177 X
	Levin, M A & Eitan, I, <i>Engineered Organisms in Environmental Settings</i> , CRC, 1996 ISBN 0849344654
Preliminary Engineering Focus Module 1 Bio-Engineering Communications	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 2</i> , Longman Cheshire, 1982 ISBN 0 582 66187 0
	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 3</i> , Longman Cheshire, 1982 ISBN 0 582 66529 9
	Standards Association of Australia, <i>Technical Drawing for Students, HBI</i> , Standards Association of Australia and Standards New Zealand, 1994 ISBN 0 726 29196 X
	Standards Association of Australia, <i>Mechanical Drawing Practice for Trade And Tertiary Students</i> , Standards Association of Australia, Sydney, 1986 ISBN 07262 404 27

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Standards Association of Australia, <i>Design Standards for Mechanical Engineering Students</i> , Standards Association of Australia, Sydney, 1985 ISBN 0726 239 887
HSC Engineering Application Module 1 Civil Structures Historical and Social Influences	Microsoft Encarta Encyclopedia, Microsoft Corporation, <a href="http://www.encarta.msn.com">http://www.encarta.msn.com</a>
	World Book Multimedia Encyclopedia, World Book Inc, <a href="http://www.worldbook.com">http://www.worldbook.com</a>
	Fraser, D, <i>Sydney – from Settlement to City</i> , Institution of Engineers, Sydney Division, 1989 ISBN 0 85 825 489 1
	Dynamic Testing of Large Scale Civil Engineering Structures <a href="http://www.intergate.bc.ca/business/edi/#projects">http://www.intergate.bc.ca/business/edi/#projects</a>
	V C Media Pty Ltd, <i>To Engineer is Human</i> (video 50 min), 1990
	Video Education Australia, <i>Building Bridges</i> (video, 30 min), 1994
	Video Education Australia, <i>Home Sweet Home</i> (video 30 min), 1997
	Construction of the Empire State Building <a href="http://www.columbia.edu/imaging/html/marc/empire/empire-marc.html">http://www.columbia.edu/imaging/html/marc/empire/empire-marc.html</a>

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
HSC Engineering Application Module 1 Civil Structures Engineering mechanics and hydraulics	Bolton, W, <i>Engineering Science</i> , 3 <sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4
	Schlenker, B R & McKern, D, <i>Introduction to Engineering Mechanics</i> , Jacaranda Press, 1979 ISBN 0 07076 1224 X
	Wyatt, K J, <i>Principles of Structures</i> , UNSW Press, Sydney, 1984 ISBN 0868400408
	Kinsky, R, <i>Engineering Mechanics and Strength of Materials</i> , McGraw-Hill, Sydney, 1986 ISBN 007 452 1551
	Civil Engineering Links <a href="http://www.cage.curtin.edu.au/civil/links/links.html#ausweb">http://www.cage.curtin.edu.au/civil/links/links.html#ausweb</a>
	V C Media Pty Ltd, <i>Bridges – Design &amp; Construction</i> (video, 30 min), 1990
	Video Education Australia, <i>Structures &amp; Bridge Building</i> (video 32 min), 1994
HSC Engineering Application Module 1 Civil Structures Engineering materials	Schlenker, B R, <i>Introduction to Materials Science</i> , John Wiley & Sons, 1974 0 471 76177 X
	Bolton, W, <i>Engineering Science</i> , 3 <sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Ashby, M & Jones, D, <i>Engineering Materials 1</i> , 2 <sup>nd</sup> edn, Butterworth/Heinemann, 1996 ISBN 0 7506 3081 7
	Video Education Australia, <i>Bikes, Materials and Technologies</i> (video 30 min), 1985
	Materials Science: A Multimedia Approach. ISBN for WIN CD ROM 0534957366 ISBN for MAC CD ROM 0534950523 Brooks/ Cole Publishing Further relevant resources are available <a href="http://www.brookscole.com/engineering/">http://www.brookscole.com/engineering/</a>
	BHP site <a href="http://www.bhp.com.au/search.htm">http://www.bhp.com.au/search.htm</a>
	CSIRO <a href="http://www.dbce.csiro.au">http://www.dbce.csiro.au</a>
	Askeland, D, <i>The Science of Engineering Materials</i> , PWS Publishing, 1998 ISBN 0 534 83423 4
	Video Education Australia, <i>Artificial Environments of man</i> (video, 50 min), 1996
	Video Education Australia, <i>Monuments to man – the impact and influence of concrete on civilisation</i> (video, 55 min), 1991
	Video Education Australia, <i>Hibernia: Building an Oil Rig</i> (video, 45 min), 1995

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	V C Media Pty Ltd, <i>The Burrowers – Tunnelling Under Our Cities</i> (video, 30 min), 1990
	Massachusetts Institute of Technology, Department of Material Science & Engineering <a href="http://www-dmse.mit.edu">http://www-dmse.mit.edu</a>
	De Gamo, E P & Black, J T, <i>Materials and Processes in Manufacturing</i> , 8 <sup>th</sup> edn, Macmillan, New York, 1997 ISBN 0 1326 1371 9
	Hull, D, <i>An Introduction to Composite Material</i> , Cambridge University Press, 1996 ISBN 0 5213 8855 4
HSC Engineering Application Module 1 Civil Structures Communications	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 2</i> , Longman Cheshire, 1982 ISBN 0 582 66187 0
	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 3</i> , Longman Cheshire, 1982 ISBN 0 582 66529 9
	Standards Association of Australia, <i>Technical Drawing for Students, HBI</i> , Standards Association of Australia and Standards New Zealand, 1994 ISBN 0 726 29196 X
	Standards Association of Australia, <i>Mechanical Drawing Practice for Trade and Tertiary Students</i> , Standards Association of Australia, 1986 ISBN 07262 404 27

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Standards Association of Australia, <i>Design standards for mechanical engineering students</i> , Standards Association of Australia, 1985 ISBN 0726 239 887
	Video Education Australia, <i>Architecture &amp; Design</i> (video, 25 min), 1994
HSC Engineering Application Module 2 Personal and Public Transport Historical and societal influences	VC Media Pty Ltd, <i>Creating the Car of the Year</i> (video, 20 min), 1997
	Microsoft Encarta Encyclopedia, Microsoft Corporation Web: <a href="http://www.encarta.msn.com/">http://www.encarta.msn.com/</a>
	World Book Multimedia Encyclopedia, World Book Inc. Web: <a href="http://www.worldbook.com">http://www.worldbook.com</a>
	Johnston, S, Gostelow, P & Jones, E, <i>Engineering and Society an Australian Perspective</i> , Longman, 1999 ISBN 0 5828 11716
	BBC Enterprises Ltd, <i>Locomotion: The World the Railways Made</i> (video, 256 min), 1993
	ABC Video, <i>Track record –The Story of Australia’s Railways</i> (video 120 min), 1992
	Video Education Australia, <i>Automotive Design</i> (video, 15 min), 1990

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Video Education Australia, <i>Designing Dream Machines</i> (video 50 min), 1996
	Marcom Projects Pty Ltd, <i>Sea Transport</i> (video, 13 min), 1995
HSC Engineering Application Module 2 Personal and Public Transport Engineering mechanics and hydraulics	Marcom Projects Pty Ltd, <i>Land Transport</i> (video, 13 min), 1994
	Bolton, W, <i>Engineering Science</i> , 3 <sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4
	Schlenker, B R & McKern, D, <i>Introduction to Engineering Mechanics</i> , Jacaranda Press, 1979 ISBN 0 7076 1224 X
	Ivanoff, V, <i>Mechanical Engineering Science</i> , McGraw-Hill, 1998 ISBN 0074510053
	Kinsky, R, <i>Engineering mechanics and strength of materials</i> , McGraw-Hill, Sydney, 1986 ISBN 007 452 1551
	Merian, J L, & Kraige, L G, <i>Statics</i> , 4 <sup>th</sup> edn, Wiley, 1998 ISBN 0471 241644
	V C Media Pty Ltd, <i>Force and Work – energy in action</i> (video, 25 min), 1990

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
HSC Engineering Application Module 2 Personal and Public Transport Engineering materials	Bolton, W, <i>Engineering Materials Technology</i> , Butterworth, Heinemann, 1998 ISBN 0 7506 3917 2
	Schlenker, B R, <i>Introduction to Materials Science</i> , John Wiley & Sons, 1974 0 471 76177 X
	Materials Science: A Multimedia Approach. ISBN for WIN CD ROM 0534957366 ISBN for MAC CD ROM 0534950523 Brooks/ Cole Publishing Further relevant resources are available <a href="http://www.brookscole.com/engineering">http://www.brookscole.com/engineering</a>
	Askeland, D R, <i>The Science and Engineering of Materials</i> , 2 <sup>nd</sup> edn, PWS Publishing, London, 1998 ISBN 0534 93423 4
	De Gamo, E P & Black, J T, <i>Materials and Processes in Manufacturing</i> , 8 <sup>th</sup> edn, Macmillan, New York: 1997 ISBN 0 1326 1371 9
	V C Media Pty Ltd, <i>Plastics</i> (video, 16 min), 1990
	Video Education Australia, <i>Composite Materials</i> (video, 2x 28 min), 1991
	Video Education Australia, <i>Bikes, Materials and Technology</i> (video, 30 min), 1990

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	V C Media Pty Ltd, <i>Metals and Plastics</i> (video, 20 min), 1990
	Massachusetts Institute of Technology, Department of Material Science & Engineering <a href="http://www-dmse.mit.edu">http://www-dmse.mit.edu</a>
HSC Engineering Application Module 2 Personal and Public Transport Engineering electricity / electronics	Marcom Projects Pty Ltd, <i>Electrical Principles</i> (video, 19 min), 1995
	Marcom Projects Pty Ltd, <i>Electrical Circuits</i> (video, 18 min), 1995
	Fletcher, R & Warner, N, <i>Introducing Design in Electronics</i> , Jacaranda/Wiley, 1996 ISBN 070163281X
	An Introduction to Electronics <a href="http://www.scimedia.com/chem-ed/electron/electron.htm">http://www.scimedia.com/chem-ed/electron/electron.htm</a>
HSC Engineering Application Module 2 Personal and Public Transport Communications	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 2</i> , Longman Cheshire, 1982 ISBN 0 582 66187 0
	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 3</i> , Longman Cheshire, 1982 ISBN 0 582 66529 9

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Standards Association of Australia, <i>Technical Drawing for Students</i> , HBI, Standards Association of Australia and Standards New Zealand, 1994, ISBN 0 726 29196 X
	Standards Association of Australia, <i>Mechanical Drawing Practice for Trade and Tertiary Students</i> , Standards Association of Australia, Sydney, 1986 ISBN 07262 404 27
	Standards Association of Australia, <i>Design standards for mechanical engineering students</i> , Standards Association of Australia, 1985 ISBN 0726 239 887
	V C Media Pty Ltd, <i>Creating the Car of the Year</i> (video, 20 min), 1997
HSC Engineering Application Module 3 Lifting Devices Historical and societal influences	NSW Department of Education, <i>Lift, Luff, Slew, Engineering Science Slide Kit</i> , NSW Department of Education
HSC Engineering Application Module 3 Lifting Devices Engineering mechanics and hydraulics	Bolton, W, <i>Engineering Science</i> , 3 <sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4
	How Stuff Works <a href="http://howstuffworks.com/index.htm">http://howstuffworks.com/index.htm</a>
	Schlenker, B R & McKern, D, <i>Introduction to Engineering Mechanics</i> , Jacaranda Press, 1979 ISBN 0 7076 1224 X

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Kinsky, R, <i>Engineering Mechanics and Strength of Materials</i> , McGraw-Hill, Sydney, 1986 ISBN 007 4521 551
	Merian, L & Kraige, L G, <i>Statics</i> 4 <sup>th</sup> edn, Wiley, 1998 ISBN 0471 241 644
HSC Engineering Application Module 3 Lifting Devices Engineering materials	Bolton, W, <i>Engineering Materials Technology</i> , Butterworth, Heinemann, 1998 ISBN 0 7506 3917 2
	Schlenker, B R, <i>Introduction to Materials Science</i> , John Wiley & Sons, 1974 0 471 76177X
	Materials Science: A Multimedia Approach. ISBN for WIN CD ROM 0534957366 ISBN for MAC CD ROM 0534950523 Brooks/Cole Publishing Further relevant resources are available <a href="http://www.brookscole.com/engineering/">http://www.brookscole.com/engineering/</a>
	Askeland, D R, <i>The Science and Engineering of Materials</i> , 2 <sup>nd</sup> edn, PWS Publishing, London, 1998 ISBN 0534 93423 4
	De Gamo, E P & Black, J T, <i>Materials and Processes in Manufacturing</i> , 8 <sup>th</sup> edn, Macmillan, New York, 1997 ISBN 0 1326 1371 9

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
HSC Engineering Application Module 3 Lifting Devices Engineering Electricity/electronics	Fletcher, R & Warner, N, <i>Introducing Design in Electronics</i> , Jacaranda/Wiley, 1996 ISBN 070163281X
	Marcom Projects Pty Ltd, <i>Electrical Principles</i> (video, 19 min), 1995
	Marcom Projects Pty Ltd, <i>Electrical Circuits</i> (video, 18 min), 1995
	The Institute of Electrical and Electronic Engineers <a href="http://www.ieee.org/">http://www.ieee.org/</a>
HSC Engineering Application Module 3 Lifting Devices Communications	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 2</i> , Longman Cheshire, 1982 ISBN 0 582 66187 0
	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 3</i> , Longman Cheshire, 1982 ISBN 0 582 66529 9
	Standards Association of Australia, <i>Technical Drawing for Students, HBI</i> , Standards Association of Australia and Standards New Zealand, 1994 ISBN 0 726 29196 X

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Standards Association of Australia, <i>Mechanical Drawing Practice for Trade and Tertiary Students</i> , Standards Association of Australia, Sydney, 1986 ISBN 07262 404 27
	Standards Association of Australia, <i>Design Standards for Mechanical Engineering Students</i> , Standards Association of Australia, 1985 ISBN 0726 239 887
HSC Engineering Focus Module 1 Aeronautical Engineering Scope of the profession	Microsoft Encarta Encyclopedia, Microsoft Corporation Web: <a href="http://www.encarta.msn.com/">http://www.encarta.msn.com/</a>
	V C Media Pty Ltd, <i>Flight</i> (video, 20 min), 1990
	Engineering Societies and Organizations AIAA Home Page of the American Institute of Aeronautics and Astronautics (AIAA) <a href="http://www.libraries.rutgers.edu/rulib/scitech/eng/societies.htm">http://www.libraries.rutgers.edu/rulib/scitech/eng/societies.htm</a>
	The Institute of Professional Engineers, New Zealand <a href="http://www.ipenz.org.nz">http://www.ipenz.org.nz</a>
	Engineering Links <a href="http://www.eng.uts.edu.au/links/">http://www.eng.uts.edu.au/links/</a>
HSC Engineering Focus Module 1 Aeronautical Engineering Historical and Societal Influences	Johnston, S, Gostelow, P & Jones, E, <i>Engineering and Society, an Australian Perspective</i> , 2 <sup>nd</sup> edn, Longman, 1999 ISBN 0 5828 1171 6

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Gero, D, <i>Flights of Terror</i> , California, Haynes, 1997 ISBN 185 260 512 X
	V C Media Pty Ltd, <i>Aircraft Design</i> (video, 15 min), 1990
HSC Engineering Focus Module 1 Aeronautical Engineering Engineering mechanics and hydraulics	Bolton, W, <i>Engineering Science</i> 3 <sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4
	Wild, T W, <i>Transport Category: Aircraft Systems</i> , Jeppesen, 1996 ISBN 0884872327
	How Stuff Works <a href="http://howstuffworks.com/index.htm">http://howstuffworks.com/index.htm</a>
	Wild, T W, <i>Aircraft Hydraulic Systems</i> , Jeppesen, 1985 ISBN 089100058
	Street, R L et al, <i>Elementary Fluid Mechanics</i> , Wiley, 1996 ISBN 0 471 013 102
	Houghton, E L et al, <i>Aerodynamics for Engineering Students</i> , John Wiley & Sons, 1993 ISBN 0 470 221 305
	Kinsky, R, <i>Engineering Mechanics and Strength of Materials</i> , McGraw-Hill, 1986 ISBN 007 4521 551

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	V C Media Pty Ltd, <i>Aircraft Design</i> (video, 15 min), 1990
HSC Engineering Focus Module 1 Aeronautical Engineering Engineering materials	Bolton, W, <i>Engineering Materials Technology</i> , Butterworth, Heinemann, 1998 ISBN 0 7506 3917 2
	Schlenker, B R, <i>Introduction to Materials Science</i> , John Wiley & Sons, 1974 ISBN 047176177X
	Ashby, M & Jones, D, <i>Engineering Materials 1, An Introduction to their Properties and Applications</i> , Butterworth/Heinemann, 1996 ISBN 0750630817
	Latia, D C, <i>Non-destructive Testing for Aircraft</i> , Jeppeson Sanderson, Colorado, 1994 ISBN 089 1004157
	Clarke, D & Suresh, S et al, <i>An Introduction to Composite Material</i> , Cambridge University Press, 1981 ISBN 0521 388 554
	Marcom Projects Pty Ltd, <i>Introducing Plastics</i> (video, 79 min), 1991
	Aeronautical Engineering, University of Sydney <a href="http://www.ae.su.oz.au/">http://www.ae.su.oz.au/</a>

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
HSC Engineering Focus Module 1 Aeronautical Engineering Communications	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 2</i> , Longman Cheshire, 1982 ISBN 0 582 66187 0
	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 3</i> , Longman Cheshire, 1982 ISBN 0 582 66529 9
	Standards Association of Australia, <i>Technical Drawing for Students, HBI</i> , Standards Association of Australia and Standards New Zealand, 1994 ISBN 0 726 29196 X
	Standards Association of Australia, <i>Mechanical Drawing Practice for Trade and Tertiary Students</i> , Standards Association of Australia, Sydney, 1986 ISBN 07262 404 27
	Standards Association of Australia, <i>Design Standards for Mechanical Engineering Students</i> , Standards Association of Australia, 1985 ISBN 0726 239 887
HSC Engineering Focus Module 2 Telecommunications Scope of the profession	Microsoft Encarta Encyclopedia, Microsoft Corporation Web: <a href="http://www.encarta.msn.com/">http://www.encarta.msn.com/</a>
	Australian Telecommunication Users Group <a href="http://www.atug.org.au:80">http://www.atug.org.au:80</a>

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	The Institute of Professional Engineers, New Zealand <a href="http://www.ipenz.org.nz">http://www.ipenz.org.nz</a>
	TSA Telecommunication Society of Australia – Worldwide Telecommunications Information Homepage <a href="http://www.tsa.org.au">http://www.tsa.org.au</a>
	The Institute of Electrical and Electronic Engineers <a href="http://www.ieee.org/">http://www.ieee.org/</a>
HSC Engineering Focus Module 2 Telecommunications Engineering Historical and societal influences	Johnston S, Gostelow, P & Jones, E, <i>Engineering and Society, an Australian Perspective</i> 2 <sup>nd</sup> edn, Longman, 1999 ISBN 0 5828 11716
HSC Engineering Focus Module 2 Telecommunications Engineering mechanics and hydraulics	Bolton, W, <i>Engineering Science</i> 3 <sup>rd</sup> edn, Newnes, 1998 ISBN 0 7506 3916 4
	Schlenker, B R & McKern, D, <i>Introduction to Engineering Mechanics</i> , Jacaranda Press, 1979 ISBN 0 7076 1224X
HSC Engineering Focus Module 2 Telecommunications Engineering Engineering materials	Bolton, W, <i>Engineering Materials Technology</i> , Butterworth, Heinemann, 1998 ISBN 0 7506 3917 2

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	Schlenker, B R, <i>Introduction to Materials Science</i> , John Wiley & Sons, 1974 ISBN 0471 76177 X
	Materials Science: A Multimedia Approach. ISBN for WIN CD ROM 0534957366 ISBN for MAC CD ROM 0534950523 Brooks/ Cole Publishing Further relevant resources are available <a href="http://www.brookscole.com/engineering/">http://www.brookscole.com/engineering/</a>
	Askeland, D R, <i>The Science and Engineering of Materials</i> , 2 <sup>nd</sup> edn, PWS Publishing, London, 1998 ISBN 0534 93423 4
	De Gamo, E P & Black, J T, <i>Materials and Processes in Manufacturing</i> , 8 <sup>th</sup> edn, Macmillan, New York,1997 ISBN 0 1326 1371 9
HSC Engineering Focus Module 2 Telecommunications Engineering Engineering Electricity/electronics	Fletcher, R & Warner, N, <i>Introducing Design in Electronics</i> , Jacaranda/Wiley, 1996 ISBN 070163281X
	How Stuff Works <a href="http://www.howstuffworks.com/index.htm">http://www.howstuffworks.com/index.htm</a>
	Johnson, J J & Fletcher B D, <i>Introduction to Radio and Television Electronics</i> , Macmillan, 1997 ISBN 0333616561

Engineering Studies  
Stage 6 Syllabus Resources

Syllabus Content	Resource / Reference
	McDaniel, D, <i>Fundamentals of Communication Electronics</i> , Kent/Hunt Publishing, 1995 ISBN 078720594 X
HSC Engineering Focus Module 2 Telecommunications Engineering Communications	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 2</i> , Longman Cheshire, 1982 ISBN 0 582 66187 0
	Mullins, R K & Cooper, D A, <i>Programmed Technical Drawing, Book 3</i> , Longman Cheshire, 1982 ISBN 0 582 66529 9
	Standards Association of Australia, <i>Technical Drawing for Students, HBI</i> , Standards Association of Australia and Standards New Zealand, 1994 ISBN 0 726 29196 X
	Standards Association of Australia, <i>Mechanical Drawing Practice for Trade and Tertiary Students</i> , Standards Association of Australia, Sydney, 1986 ISBN 07262 404 27
	Standards Association of Australia, <i>Design Standards for Mechanical Engineering Students</i> , Standards Association of Australia, 1985 ISBN 0726 239 887