



DESIGN DRAFTING GRADES 9 TO 12
LEARNING RESOURCES

A Reference for Selecting Learning
Resources

Manitoba Education and Advanced Learning Cataloguing in Publication Data

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a reference for selecting learning resources

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Manitoba Education and Advanced Learning
School Programs Division
Winnipeg, Manitoba, Canada

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with copyright law. If cases are identified where this has not been done,
please notify Manitoba Education and Advanced Learning. Errors or
omissions will be corrected in a future edition.

Any websites referenced in this document are subject to change without
notice. Educators are advised to preview and evaluate websites and online
resources before recommending them for student use.

This resource is available on the Manitoba Education and Advanced Learning
website at <www.edu.gov.mb.ca/k12/learnres/bibliographies.html>.

A C K N O W L E D G E M E N T S

Manitoba Education and Advanced Learning acknowledges the individuals involved in the review and selection of learning resources to support provincial curriculum implementation. Appreciation is also extended to school divisions within Manitoba that support teachers' participation in the review. Finally, publishers, producers, and distributors are thanked for their submission of learning resources for consideration.

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I N T R O D U C T I O N

Reference for Selecting Learning Resources

DESIGN DRAFTING GRADES 9 TO 12 LEARNING RESOURCES is a reference tool provided by Manitoba and Advanced Learning to help educators select student and teacher learning resources to support the curriculum. Recommended learning resources may be purchased through the Manitoba Text Book Bureau (MTBB), and many of the titles may be borrowed from the Department's Instructional Resources Unit (Library).

The bibliography is arranged alphabetically by title, followed with indexes. The indexes may include audience, (for example, resource for teachers or resource for students), grade, distributor, category (for example, depth resource), and suggested use.

Learning Resources Reviews

Publishers submit resources for review in response to the Department's request for new learning resources to support provincial curricula. Teachers, nominated by superintendents of school divisions, are selected as teacher-evaluators. Using a collaborative review process, the teacher-evaluators examine the materials according to the resource-selection criteria to make recommendations regarding the suitability of the resources for Manitoba students and teachers.

Resource Selection Criteria

Learning resources are selected based on the basis of their fidelity with the rationale, philosophy, processes, and learning outcomes identified in each curriculum. Four evaluation criteria are used in selecting learning resources:

- **Curriculum Fit/Content/Philosophy:** the degree to which the content and processes of the resource align with the curriculum, thus providing support for curriculum implementation.
- **Instructional Design:** the degree to which the resource provides for multiple approaches to learning, has a wide range of use, is current, and reflects current pedagogical theory and practice.
- **Social Considerations:** the degree to which the resource is free of bias and stereotyping. The resource is examined for Canadian content, the use of culturally diverse examples, and accurate portrayal of First Nations, Inuit, and Métis peoples. Cautionary notes are added to alert teachers to potentially sensitive curriculum-fit issues or potential community concerns related to the resource.
- **Technical Design:** the degree to which the resource is visually appealing and has a logical and consistent form.

When selecting learning and teaching resources, teachers should consider how the resources meet the learning requirements of students, the perspectives of the student population, and local decisions related to the delivery of potentially sensitive content.

Terms and Definitions

The following terms and definitions are used to describe the learning resources:

- **Breadth:** identifies learning resources that address a wide range of student learning outcomes for a particular grade.
- **Depth:** identifies learning resources that provide effective learning experiences in greater detail for a narrower grouping of student learning outcomes.
- **Breadth and Depth:** identifies comprehensive learning resources that provide both breadth and depth dimensions for an extensive grouping of student learning outcomes.
- **Teacher Reference:** identifies resources that assist teachers in implementing the curriculum, including background information for teacher use; may identify teaching suggestions and learning activities.
- **Teacher Guide:** identifies a separate guide for teachers or a teacher's edition of a **Student Text**.

Purchase of Learning Resources

The learning resources described in the bibliography are available for purchase through the *Manitoba Text Book Bureau Catalogue of Learning Resources*. For information or assistance regarding the purchase of learning resources, contact:

The Manitoba Text Book Bureau (MTBB)

Box 910

Souris, MB R0K 2C0

Toll free: 866-771-6822 (Manitoba and Saskatchewan)

Telephone: 204-483-5040

Fax: 204-483-5041

Email: mtbb@gov.mb.ca

Online catalogue: <<http://www.mtbb.mb.ca>>

Borrowing Recommended Learning Resources

Most of the learning resources listed in the bibliographies are available to Manitoba educators through the Manitoba Education Library, located at 1181 Portage Avenue in Winnipeg.

The Education Library ships materials province-wide.

Search for recommended learning resources in the Education Library's online catalogue:
<http://library.edu.gov.mb.ca>

To learn more about the Education Library's services, visit the home page:
<http://www.edu.gov.mb.ca/k12/mel>

Contact Information:

For registration questions or information about your account, please contact:

204-945-5371

Toll Free: 1-800-592-7330

irucirc@gov.mb.ca

For help with searching or selecting Library materials, please contact:

204-945-7830

Toll Free: 1-800-282-8069 x.7830

iruref@gov.mb.ca



TITLES & DESCRIPTIONS

Architectural Drafting & Design

Publisher : Delmar, Cengage Learning

Subject/Grade

	K	1	2	3	4	5	6	7	8	9	10	11	12
Design Drafting										✓	✓	✓	✓

The combination of the student text, instructor resources CD, and solutions manual provide a comprehensive resource in beginning and advanced architectural design drafting classes. The student text begins with information on architectural styles, followed by basic design components related to the site and structure. It is dominated throughout with exemplar sketches and drawings to illustrate concepts. Full colour graphics and photographs show construction techniques. Step-by-step instructions for the design and layout of each type of drawing associated with a complete set of architectural plans with projects can be completed using either CADD or manual drawing methods.

Features include: LEED (Leadership in Energy and Environmental Design Green Building Rating System) standards; Going Green boxes regarding friendly construction materials and techniques; and back of student book CD with supplemental chapter readings, step-by-step drawings, Web links, video clips, review questions and student workbook. The student workbook CD also provides a series of complete residential plans presented as architectural design problems.

The Solutions Manual is recommended as it provides answers to end-of-chapter review questions and solutions to end-of-chapter problems. Solutions are also provided for the student Workbook problems.

The Instructor Resources CD offers chapter objectives/hints, syllabus including lesson plans by chapter, chapter tests, ExamView computerized testbank, customizable PowerPoint presentations for each chapter, CADD drawing files, videos and animations, and the Solutions Manual in digital format.

Architectural Drafting & Design (Includes Student CD)

Author(s):	Alan Jefferis, David A. Madsen, David P. Madsen	Audience:	Student
Edition:	25th Anniversary Edition	Category:	
Year:	2011	Suggested Use(s):	Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 4 - Present, Goal 5 - Tools and Equipment, Goal 6 - Cross-Curricular Knowledge & Skills, Goal 7 - Sustainability, Goal 8 - Evolution, Technological
Pagination:	1127 p		
ISBN:	978-1-4354-8162-6		
Format:	Print/CD-ROM		

Progression & Emerging Trends, Goal 9 – Ethical and Legal Standards, Goal 11 – Employability Skills, Goal 12 - Career Opportunities

Publisher: Delmar, Cengage Learning
Distributor: Nelson Education Ltd.

Date Recommended: May 12, 2015

Architectural Drafting & Design Instructor Resource

Author(s): Alan Jefferis, David A. Madsen, David P. Madsen
Edition: 25th Anniversary Edition
Year: 2011
Pagination: unp.
ISBN: 978-1-4354-8163-3
Format: Print

Audience: Teacher
Category:
Suggested Use(s): Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 4 - Present, Goal 5 – Tools and Equipment, Goal 6 – Cross-Curricular Knowledge & Skills, Goal 7 - Sustainability, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 9 – Ethical and Legal Standards, Goal 11 – Employability Skills, Goal 12 - Career Opportunities

Publisher: Delmar, Cengage Learning
Distributor: Nelson Education Ltd.

Date Recommended: May 12, 2015

Architectural Drafting & Design Solutions Manual

Author(s): Alan Jefferis, David A. Madsen
Edition: 25th Anniversary Edition
Year: 2011
Pagination: 689 p
ISBN: 978-1-4354-8165-7
Format: Print

Audience: Student
Category:
Suggested Use(s): Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 4 - Present, Goal 5 – Tools and Equipment, Goal 6 – Cross-Curricular Knowledge & Skills, Goal 7 - Sustainability, Goal 8 - Evolution, Technological Progression & Emerging

Publisher: Delmar, Cengage Learning
Distributor: Nelson Education Ltd.

Date Recommended: May 12, 2015

Drafting & Design for Architecture & Construction

Publisher : Delmar, Cengage Learning

Subject/ Grade

	K	1	2	3	4	5	6	7	8	9	10	11	12
Design Drafting										✓	✓	✓	✓

Drafting and Design for Architecture and Construction is a basic architectural text designed for a beginning course in architectural and construction drafting and design. This text is intended to help students learn the fundamental skills and concepts necessary for architectural and construction planning, designing, and drawing. The main thrust of this text is to show students how to prepare architectural drawings that will effectively and accurately communicate ideas and designs to clients, contractors, and construction personnel.

A unique feature of this text is the provision of full-size (1/4"=1'-0") working architectural drawing sets (10) with basic and detail drawings, and design changes. The student text contains appendices that describe Careers in Architecture And Related Fields in short narratives, such as city planners, architectural illustrators, surveyors, or civil engineers. Another appendix contains a summary of Mathematical Calculations presented in the text, and are divided into arithmetic, structural, and geometric calculations.

The Instructor’s Guide CD provides suggestions for developing and managing courses to include lesson plans, course outlines, ExamView test banks, PowerPoint presentations, some metric applications, hand-outs, and image library.

The Workbook exercises provide students with preliminary practice and problem solving through drawing and sketching. The exercises follow the chapter sequences of the student text and may be completed through sketching, board drafting, and/or computer-aided drafting.

Drafting & Design for Architecture & Construction

Author(s):	Dana J. Helper, Paul Ross Wallach, Donald E. Hepler	Audience:	Student
Edition:	Ninth Edition	Category:	
Year:	2013	Suggested Use(s):	Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 4 - Present, Goal 7 - Sustainability, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 12 - Career Opportunities
Pagination:	852 p		
ISBN:	978-1-111-12813-5		
Format:	Print		
Publisher:	Delmar, Cengage Learning	Date Recommended:	May 12, 2015
Distributor:	Nelson Education Ltd.		

Drafting & Design for Architecture & Construction: Instructor Resource

Author(s):	Dana J. Helper, Paul Ross Wallach, Donald E. Hepler	Audience:	Teacher
Edition:	Ninth Edition	Category:	
Year:	2013	Suggested Use(s):	Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 4 - Present, Goal 7 - Sustainability, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 12 - Career Opportunities
Pagination:	unp.		
ISBN:	978-1-111-12814-2		
Format:	CD-ROM		
Publisher:	Delmar, Cengage Learning	Date Recommended:	May 12, 2015
Distributor:	Nelson Education Ltd.		

Drafting & Design for Architecture & Construction: Instructor's Guide

Author(s):	Dana J. Helper, Paul Ross Wallach, Donald E. Hepler	Audience:	Teacher
Edition:	Ninth Edition	Category:	
Year:	2013	Suggested Use(s):	Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 4 - Present, Goal 7 - Sustainability, Goal 8 -
Pagination:	124 p		
ISBN:	978-1-111-12816-6		

Format: Print Evolution, Technological Progression & Emerging Trends, Goal 12 - Career Opportunities

Publisher: Delmar, Cengage Learning **Date Recommended:** May 12, 2015

Distributor: Nelson Education Ltd.

Drafting & Design for Architecture & Construction: Workbook

Author(s): Dana J. Helper, Paul Ross Wallach, Donald E. Hepler **Audience:** Student

Edition: Ninth Edition **Category:**

Year: 2013 **Suggested Use(s):** Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 4 - Present, Goal 7 - Sustainability, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 12 - Career Opportunities

Pagination: 268 p

ISBN: 978-1-111-12815-9

Format: Print

Publisher: Delmar, Cengage Learning **Date Recommended:** May 12, 2015

Distributor: Nelson Education Ltd.

Mechanical Drawing: Board and CAD Techniques, 2010 Edition

Publisher : Glencoe/McGraw Hill

Subject/Grade

	K	1	2	3	4	5	6	7	8	9	10	11	12
Design Drafting										✓	✓	✓	✓

“Mechanical Drawing-Board and CAD Techniques”, addresses manual and AutoCAD specific drafting fundamentals. Outcomes for each chapter, end-of-chapter reviews and assessments, and overall text layout and readability are very suitable for grades 9-12 students. End-of-chapter assessments recap the concepts covered in all sections of the chapters and also offer critical thinking practise, academic and workplace applications and standardized test practise. This text focuses on student relevant project-based learning. Step-by-step applications, design problems, and drafting problems prepare students for related mechanical drafting careers. Project-based learning is supported with unit-based projects that integrate technical math and culminate in “Build Your Portfolio” activities. Academic content is supported, with a special emphasis on math, geometry, and science, with **STEM** activities.

Instructor resources include lesson plans that are sequenced to follow a 6 step teaching plan: focus, teach, assess, re-teach, assess, and close. They also include the ExamView assessment suite, lesson planner plus, and PowerPoint slides. The ExamView assessment suite CD provides an accurate and exhaustive source of test items for a wide variety of examination styles. It contains hundreds of test questions organized by chapter and unit. The Lesson planner plus CD includes built in lesson plans that can be customized to your individual classroom needs. It also includes links to printable program resources.

The interactive, searchable, student edition includes the complete text of “Mechanical Drawing Student Edition” formatted like the hardbound book in a .pdf format. Extra activities in the Student Edition and workbook help you reinforce drafting concepts.

Mechanical Drawing: Board and CAD Techniques (Student Book)

Author(s):	Helsel, Jay D.	Audience:	Student
Edition:		Category:	
Year:	2010	Suggested Use(s):	Design Drafting, Mathematics, Goal 1 - Design Process, Goal 2 - Communicate, Goal 5 – Tools and Equipment, Goal 6 – Cross-Curricular Knowledge & Skills, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 9 – Ethical and Legal Standards, Goal 11 – Employability Skills, Goal 12 - Career Opportunities
Pagination:	800 p		
ISBN:	978-0-07-879605-0		
Format:	Print		
Publisher:	Glencoe/McGraw Hill	Date Recommended:	May 12, 2015
Distributor:	McGraw-Hill Ryerson Limited		

Mechanical Drawing: Board and CAD Techniques: ExamView Assessment Suite

Author(s):		Audience:	Teacher
Edition:		Category:	
Year:	2010	Suggested Use(s):	Design Drafting, Mathematics, Goal 1 - Design Process, Goal 2 - Communicate, Goal 5 – Tools and Equipment, Goal 6 – Cross-Curricular Knowledge & Skills, Goal 8 - Evolution, Technological Progression
Pagination:	unp.		
ISBN:	978-0-07-889513-5		
Format:	CD-ROM		

& Emerging Trends, Goal 9 – Ethical and Legal Standards, Goal 11 – Employability Skills, Goal 12 - Career Opportunities

Publisher: Glencoe/McGraw Hill
Distributor: McGraw-Hill Ryerson Limited

Date Recommended: May 12, 2015

Mechanical Drawing: Board and CAD Techniques: Instructor Resource Guide

Author(s): Hesel, Jay D.
Edition:
Year: 2010
Pagination: 352 p
ISBN: 978-0-07-889510-4
Format: Print

Audience: Teacher
Category:
Suggested Use(s): Design Drafting, Mathematics, Goal 1 - Design Process, Goal 2 - Communicate, Goal 5 – Tools and Equipment, Goal 6 – Cross-Curricular Knowledge & Skills, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 9 – Ethical and Legal Standards, Goal 11 – Employability Skills, Goal 12 - Career Opportunities

Publisher: Glencoe/McGraw Hill
Distributor: McGraw-Hill Ryerson Limited

Date Recommended: May 12, 2015

Mechanical Drawing: Board and CAD Techniques: Interactive Student Edition

Author(s):
Edition:
Year: 2010
Pagination: unp.
ISBN: 978-0-07-889516-6
Format: CD-ROM

Audience: Student
Category:
Suggested Use(s): Design Drafting, Mathematics, Goal 1 - Design Process, Goal 2 - Communicate, Goal 5 – Tools and Equipment, Goal 6 – Cross-Curricular Knowledge & Skills, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 9 – Ethical and Legal Standards, Goal 11 –

Employability Skills, Goal
12 - Career Opportunities

Publisher: Glencoe/McGraw Hill
Distributor: McGraw-Hill Ryerson
Limited

Date Recommended: May 12, 2015

Mechanical Drawing: Board and CAD Techniques: Lesson Planner Plus with Teacher Resources

Author(s):		Audience:	Teacher
Edition:		Category:	
Year:	2010	Suggested Use(s):	Design Drafting, Mathematics, Goal 1 - Design Process, Goal 2 - Communicate, Goal 5 – Tools and Equipment, Goal 6 – Cross-Curricular Knowledge & Skills, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 9 – Ethical and Legal Standards, Goal 11 – Employability Skills, Goal 12 - Career Opportunities
Pagination:	unp.		
ISBN:	978-0-07-889515-9		
Format:	CD-ROM		

Publisher: Glencoe/McGraw Hill
Distributor: McGraw-Hill Ryerson
Limited

Date Recommended: May 12, 2015

Mechanical Drawing: Board and CAD Techniques: Mechanical Drawing and Mathematics Applications Workbook

Author(s):		Audience:	Student
Edition:		Category:	
Year:	2010	Suggested Use(s):	Design Drafting, Mathematics, Goal 1 - Design Process, Goal 2 - Communicate, Goal 5 – Tools and Equipment, Goal 6 – Cross-Curricular Knowledge & Skills, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 9 – Ethical and Legal Standards, Goal 11 – Employability Skills, Goal 12 - Career Opportunities
Pagination:	346 p		
ISBN:	978-0-07-889511-1		
Format:	Print		

Publisher: Glencoe/McGraw Hill
Distributor: McGraw-Hill Ryerson Limited

Date Recommended: May 12, 2015

Mechanical Drawing: Board and CAD Techniques: Mechanical Drawing and Mathematics Applications Workbook: Instructor Annotated Edition

Author(s):		Audience:	Teacher
Edition:		Category:	
Year:	2010	Suggested Use(s):	Design Drafting, Mathematics, Goal 1 - Design Process, Goal 2 - Communicate, Goal 5 - Tools and Equipment, Goal 6 - Cross-Curricular Knowledge & Skills, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 9 - Ethical and Legal Standards, Goal 11 - Employability Skills, Goal 12 - Career Opportunities
Pagination:	345 p		
ISBN:	978-0-07-889512-8		
Format:	Print		

Publisher: Glencoe/McGraw Hill
Distributor: McGraw-Hill Ryerson Limited

Date Recommended: May 12, 2015

Mechanical Drawing: Board and CAD Techniques: Presentation Plus!

Author(s):		Audience:	Teacher
Edition:		Category:	
Year:	2010	Suggested Use(s):	Design Drafting, Mathematics, Goal 1 - Design Process, Goal 2 - Communicate, Goal 5 - Tools and Equipment, Goal 6 - Cross-Curricular Knowledge & Skills, Goal 8 - Evolution, Technological Progression & Emerging Trends, Goal 9 - Ethical and Legal Standards, Goal 11 - Employability Skills, Goal 12 - Career Opportunities
Pagination:	unp.		
ISBN:	978-0-07-889514-2		
Format:	CD-ROM		

Publisher: Glencoe/McGraw Hill
Distributor: McGraw-Hill Ryerson Limited

Date Recommended: May 12, 2015

Technical Drawing with Engineering Graphics

Publisher : Prentice Hall Inc.

Subject / Grade

	K	1	2	3	4	5	6	7	8	9	10	11	12
Design Drafting										✓	✓	✓	✓

This traditional text is a clear and comprehensive introduction and reference for secondary and post-secondary students who create 2D documentation drawings and engineering graphics by hand or using CAD. For the following goals of design process, graphic communication, materials and processes, evolution/technological progression and emerging trends, it offers technical detail with up-to-date standards, real world examples, and thoroughly explained theory and technique. This edition expands on well-tested student material that has been updated with an on-line instructor's manual with test bank, a solutions manual, and PowerPoint presentations (for download only).

Cautionary note: Requires augmentation for sustainability topics and issues, health and safety, presentation skills, manufacturing processes, power transmission concepts, and career opportunities.

Technical Drawing with Engineering Graphics (Student Book)

Author(s): Frederick E. Giesecke,
Alva Mitchell, Henry
Cecil Spencer, Ivan
Leroy Hill, John Thomas
Dygdon, James E.
Novak, Shawna Lockhart

Edition: Fourteenth Edition
Year: 2012
Pagination: unp.
ISBN: 978-0-13-509049-7
Format: Print

Audience: Student

Category:

Suggested Use(s): Design Drafting, Goal 1 -
Design Process, Goal 2 -
Communicate, Goal 3 -
Materials and Processes,
Goal 8 - Evolution,
Technological Progression
& Emerging Trends

Publisher: Prentice Hall Inc.

Distributor: Pearson Canada

Date Recommended: May 12, 2015

Technical Drawing with Engineering Graphics: Instructor Solutions Manual (Download only) for Engineering Design Problems Series Four (Online)

Author(s):	Frederick E. Giesecke, Alva Mitchell, Henry Cecil Spencer, Ivan Leroy Hill, John Thomas Dygdon, James E. Novak, Shawna Lockhart	Audience:	Teacher
Edition:	Fourteenth Edition	Category:	
Year:	2012	Suggested Use(s):	Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 8 - Evolution, Technological Progression & Emerging Trends
Pagination:	unp.		
ISBN:	978-0132791533		
Format:	Online resource		
Publisher:	Prentice Hall Inc.	Date Recommended:	May 12, 2015
Distributor:	Pearson Canada		

Technical Drawing with Engineering Graphics: Instructor's Manual with Test Bank (Download only) for Technical Drawing with Engineering Graphics (Online)

Author(s):	Frederick E. Giesecke, Alva Mitchell, Henry Cecil Spencer, Ivan Leroy Hill, John Thomas Dygdon, James E. Novak, Shawna Lockhart	Audience:	Teacher
Edition:	Fourteenth Edition	Category:	
Year:	2012	Suggested Use(s):	Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 8 - Evolution, Technological Progression & Emerging Trends
Pagination:	unp.		
ISBN:	978-0135090480		
Format:	Online resource		
Publisher:	Prentice Hall Inc.	Date Recommended:	May 12, 2015
Distributor:	Pearson Canada		

Technical Drawing with Engineering Graphics: PowerPoint Presentation (Download only) for Technical Drawing with Engineering Graphics (Online)

Author(s):	Frederick E. Giesecke, Alva Mitchell, Henry Cecil Spencer, Ivan Leroy Hill, John Thomas Dygdon, James E. Novak, Shawna Lockhart	Audience:	Teacher
Edition:	Fourteenth Edition	Category:	
Year:	2012	Suggested Use(s):	Design Drafting, Goal 1 - Design Process, Goal 2 - Communicate, Goal 3 - Materials and Processes, Goal 8 - Evolution, Technological Progression & Emerging Trends
Pagination:	unp.		
ISBN:	978-0135090503		
Format:	Online resource		
Publisher:	Prentice Hall Inc.	Date Recommended:	May 12, 2015
Distributor:	Pearson Canada		

A U D I E N C E

Student

Architectural Drafting & Design

Architectural Drafting & Design (Includes Student CD)

Architectural Drafting & Design Solutions Manual

Drafting & Design for Architecture & Construction

Drafting & Design for Architecture & Construction

Drafting & Design for Architecture & Construction: Workbook

Mechanical Drawing: Board and CAD Techniques, 2010 Edition

Mechanical Drawing: Board and CAD Techniques (Student Book)

Mechanical Drawing: Board and CAD Techniques: Interactive Student Edition

Mechanical Drawing: Board and CAD Techniques: Mechanical Drawing and Mathematics Applications Workbook

Technical Drawing with Engineering Graphics

Technical Drawing with Engineering Graphics (Student Book)

Teacher

Architectural Drafting & Design

Architectural Drafting & Design Instructor Resource

Drafting & Design for Architecture & Construction

Drafting & Design for Architecture & Construction: Instructor Resource

Drafting & Design for Architecture & Construction: Instructor's Guide

Mechanical Drawing: Board and CAD Techniques, 2010 Edition

Mechanical Drawing: Board and CAD Techniques: ExamView Assessment Suite

Mechanical Drawing: Board and CAD Techniques: Instructor Resource Guide

Mechanical Drawing: Board and CAD Techniques: Lesson Planner Plus with Teacher Resources

Mechanical Drawing: Board and CAD Techniques: Mechanical Drawing and Mathematics Applications Workbook: Instructor Annotated Edition

Mechanical Drawing: Board and CAD Techniques: Presentation Plus!

Technical Drawing with Engineering Graphics

Technical Drawing with Engineering Graphics: Instructor Solutions Manual (Download only) for Engineering Design Problems Series Four (Online)

Technical Drawing with Engineering Graphics: Instructor's Manual with Test Bank (Download only) for Technical Drawing with Engineering Graphics (Online)

Technical Drawing with Engineering Graphics: PowerPoint Presentation (Download only) for Technical Drawing with Engineering Graphics (Online)

GRADE

Grade 9

Mechanical Drawing: Board and CAD Techniques, 2010 Edition

Mechanical Drawing: Board and CAD Techniques (Student Book)

Mechanical Drawing: Board and CAD Techniques: ExamView Assessment Suite

Mechanical Drawing: Board and CAD Techniques: Instructor Resource Guide

Mechanical Drawing: Board and CAD Techniques: Interactive Student Edition

Mechanical Drawing: Board and CAD Techniques: Lesson Planner Plus with Teacher Resources

Mechanical Drawing: Board and CAD Techniques: Mechanical Drawing and Mathematics Applications Workbook

Mechanical Drawing: Board and CAD Techniques: Mechanical Drawing and Mathematics Applications Workbook: Instructor Annotated Edition

Mechanical Drawing: Board and CAD Techniques: Presentation Plus!

Technical Drawing with Engineering Graphics

Technical Drawing with Engineering Graphics (Student Book)

Technical Drawing with Engineering Graphics: Instructor Solutions Manual (Download only) for Engineering Design Problems Series Four (Online)

Technical Drawing with Engineering Graphics: Instructor's Manual with Test Bank (Download only) for Technical Drawing with Engineering Graphics (Online)

Technical Drawing with Engineering Graphics: PowerPoint Presentation (Download only) for Technical Drawing with Engineering Graphics (Online)

Grade 10

Mechanical Drawing: Board and CAD Techniques, 2010 Edition

Mechanical Drawing: Board and CAD Techniques (Student Book)

Mechanical Drawing: Board and CAD Techniques: ExamView Assessment Suite

Mechanical Drawing: Board and CAD Techniques: Instructor Resource Guide

Mechanical Drawing: Board and CAD Techniques: Interactive Student Edition

Mechanical Drawing: Board and CAD Techniques: Lesson Planner Plus with Teacher Resources

Mechanical Drawing: Board and CAD Techniques: Mechanical Drawing and Mathematics Applications Workbook

Mechanical Drawing: Board and CAD Techniques: Mechanical Drawing and Mathematics Applications Workbook: Instructor Annotated Edition

Mechanical Drawing: Board and CAD Techniques: Presentation Plus!

Technical Drawing with Engineering Graphics

Technical Drawing with Engineering Graphics (Student Book)

Technical Drawing with Engineering Graphics: Instructor Solutions Manual (Download only) for Engineering Design Problems Series Four (Online)

Technical Drawing with Engineering Graphics: Instructor's Manual with Test Bank (Download only) for Technical Drawing with Engineering Graphics (Online)

Technical Drawing with Engineering Graphics: PowerPoint Presentation (Download only) for Technical Drawing with Engineering Graphics (Online)

Grade 11

Architectural Drafting & Design

Architectural Drafting & Design (Includes Student CD)

Architectural Drafting & Design Instructor Resource

Architectural Drafting & Design Solutions Manual

Drafting & Design for Architecture & Construction

Drafting & Design for Architecture & Construction

Drafting & Design for Architecture & Construction: Instructor Resource

Drafting & Design for Architecture & Construction: Instructor's Guide

Drafting & Design for Architecture & Construction: Workbook

Mechanical Drawing: Board and CAD Techniques, 2010 Edition

Mechanical Drawing: Board and CAD Techniques (Student Book)

Mechanical Drawing: Board and CAD Techniques: ExamView Assessment Suite

Mechanical Drawing: Board and CAD Techniques: Instructor Resource Guide

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Goal 11 - Employability Skills

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Goal 12 - Career Opportunities

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Goal 2 - Communicate

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Goal 3 - Materials and Processes

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Goal 5 - Tools and Equipment

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Goal 6 - Cross-Curricular Knowledge & Skills

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Goal 7 - Sustainability

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Goal 8 - Evolution, Technological Progression & Emerging Trends

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Goal 9 - Ethical and Legal Standards

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