

# CONNECTION

Information *for* Teachers

**April 2001**

**Note:** All links in the articles of this edition of *Connection: Information for Teachers* were active and accurate at the time of publication. This may no longer be the case.



April 2001

## Career and Life Management (CALM)

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### Authorized Career and Life Management (CALM) Resources

For a listing of the most recent resource authorizations for CALM (from October 1, 2000 to April 15, 2001), click [here](#).

### Student Learning-Career Planners

Student Learning-Career Planners have been developed for both Middle/Junior High School and Senior High School. In addition, a Student Learning-Career Planner Information Booklet is available.

The two versions of the Student Learning-Career Planner can be used to assist students in their career planning and to support their transitions from:

- junior high school into senior high school
- senior high school into the workplace and/or post-secondary studies.

These resources are intended for use with Health and Life Skills, Career and Life Management and CTS Career Transitions teachers; school counsellors; administrators; parents; and other interested parties in your school community.

These resources are available for purchase through the [Learning Resources Centre](#).

- Student Learning-Career Planner Information Booklet (Product #437576)
- Student Learning-Career Planner: Middle/Junior High School (Product #440503)
- Student Learning-Career Planner: Senior High School (Product #440511)

The resources are also available for viewing and downloading from the [Alberta Learning](#) Web site.

For more information, contact Karen Fetterly at 780-427-2984, fax 780-422-3745, e-mail [Karen.Fetterly@gov.ab.ca](mailto:Karen.Fetterly@gov.ab.ca).

## Career and Technology Studies (CTS)

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### CTS Curriculum and Resources

#### Maintaining CTS

Information regarding the maintenance of CTS programs is available through the [How Is CTS Maintained?](#) section of the Alberta Learning Web site.

Information on course changes effective September 2001; a summary of 1999, 2000 and 2001 course changes; and priorities for evergreening CTS in 2001-2002 is available through the [CTS Program Update](#) section of the Alberta Learning Web site.

### **Development/Validation of New CTS Courses**

#### **Communication Technology**

In response to technological developments in digital photography, three new 1-credit courses on digital imaging are being developed:

- Digital Imaging 1 (Introductory Level)
- Digital Imaging 2 (Intermediate Level)
- Digital Imaging 3 (Advanced Level).

A discussion draft of curriculum proposed for the new digital imaging courses is scheduled to be available, for review and feedback, in June 2001 at [CTS Field Test Documents](#) on the CTS home page.

#### **Fabrication Studies**

To ensure alignment of the CTS welding courses with new directions established in the apprenticeship training program for the Welder trade, three new 1-credit welding courses are being developed:

- Semi-automated/Automated Welding (Introductory Level)
- Flux Core Arc Welding 1 (Intermediate Level)
- Flux Core Arc Welding 2 (Advanced Level).

A discussion draft of curriculum proposed for the new welding courses is scheduled to be available, for review and feedback, in June 2001 at [CTS Field Test Documents](#) on the CTS home page.

#### **Information Processing**

In response to emerging opportunities in information and communication technology, three new 1-credit courses in computer science are being developed:

- Computer Science 1 (Introductory Level)
- Computer Science 2 (Intermediate Level)
- Computer Science 3 (Advanced Level).

A discussion draft of curriculum proposed for the new computer science courses is scheduled to be available, for review and feedback, in June 2001 at [CTS Field Test Documents](#) on the CTS home page.

School systems were invited in August 2000 to participate in the validation of four new 1-credit courses in programming:

- Object-oriented Programming 1 (Intermediate Level)
- Object-oriented Programming 2 (Advanced Level)
- Dynamic Data Structures 1 (Advanced Level)
- Dynamic Data Structures 2 (Advanced Level).

Interim curriculum approved for use by approved field validation sites is currently available at [CTS Field Test Documents](#) on the CTS home page. Pending successful field validation, the new programming courses are scheduled for provincial implementation in September 2002.

## Authorized Resources

For a listing of the most recent resource authorizations for CTS (from October 1, 2000 to April 15, 2001), click on the particular strand below.

[Agriculture](#)

[Energy and Mines](#)

[Career Transitions](#)

[Fabrication Studies](#)

[Communication Technology](#)

[Foods](#)

[Community Health](#)

[Forestry](#)

[Construction Technologies](#)

[Information Processing](#)

[Design Studies](#)

[Mechanics](#)

[Electro-Technologies](#)

[Tourism Studies](#)

## Distance Learning Materials

Information on distance learning materials for CTS is available through the [CTS Program Update](#) section of the Alberta Learning Web site.

## We Welcome Your Ideas and Questions!

For a list of CTS team members and other key contacts, please refer to the [CTS Team Directory](#).

## CTS Inservice/Professional Development Opportunities

### University of Alberta

The University of Alberta is again offering summer courses of potential interest to CTS teachers. See the [CTS course schedule](#) for the summer of 2001. Additional information regarding deadlines for registration, fees and a listing of other courses offered at the University of Alberta during the spring and summer terms is available through the [Special Registrations 2001](#) section of the University of Alberta Web site.

Please note that courses listed in the calendar will be offered pending sufficient enrollment. In the event that a course is cancelled, all paid fees will be refunded.

The University of Alberta is accepting applicants in each of the four CTS major and minor program areas. Although the content instruction for the Technology Education major and minor program is under review, individuals who are accepted into this major or minor program area will be able to complete the degree requirements within the normal four-year period.

For more information about undergraduate and graduate programs in Secondary Education at the University of Alberta, contact:

George Buck, Department of Secondary Education, University of Alberta, Telephone: 780-492-3572, Fax: 780-492-9402, E-mail: [george.buck@ualberta.ca](mailto:george.buck@ualberta.ca).

## CTS Council

The CTS Council, a specialist council of the Alberta Teachers' Association, invites its members to attend workshops of local interest at various times during the school year. The workshops vary in format, depending on the needs of the members.

Explore the [CTS Council Web site](#) for membership and professional development opportunities.

**Note:** Links are provided to other sites as a service only to identify potentially useful ideas for teaching and learning. The responsibility to evaluate these sites rests with the user.

## Opportunities for CTS Students

### Registered Apprenticeship Program Scholarship

The Registered Apprenticeship Program Scholarship, an initiative of Alberta's Apprenticeship and Industry Training Board in partnership with Alberta Learning, will recognize the academic and trade-related accomplishments of up to 50 senior high school students who are taking part in the Registered Apprenticeship Program (RAP). RAP is an innovative program that allows apprentices to begin their training while still in senior high school, and the scholarship will reward them with \$1000 toward the cost of continuing their training.

Further information about this scholarship is available through the [Apprenticeship and Industry Training Division](#) Web site.

### Merit Contractors Association Award

Merit Contractors Association, a nonprofit association of over 550 open shop construction companies, offers an annual award to each senior high school for CTS students enrolled in construction-related courses. The purpose of the award program is to recognize individual achievement, promote construction as a career, and encourage cooperation between education and industry. The award consists of a certificate of achievement and a cash award of \$150. This award applies to CTS students for the current 2000-2001 school year.

To qualify for the award, a student must:

- be in Grade 12 and achieve the top standing in a construction-related CTS course
- demonstrate a high level of interest in the course
- demonstrate leadership qualities in the classroom
- demonstrate a cooperative attitude with fellow students and teachers.

The CTS Coordinator/Department Head, in consultation with other CTS teachers, will review candidates on the basis of the identified criteria and make a selection. The presentation will be made by the CTS Coordinator/Department Head (or delegate) at the school's annual awards ceremony. In order for the award to be available for the ceremony, the school must notify Merit Contractors Association two weeks in advance of the ceremony by letter, fax or telephone of the winner's name and the presentation date.

If you wish to participate in this award program or require more information, contact:  
Marla McCready-Kirillo, Merit Contractors Association, 10951 - 120 Street, Edmonton, AB T5H 3R2.  
Telephone: 780-455-5999, Fax: 780-455-2109, E-mail: [mmccready@meritalberta.com](mailto:mmccready@meritalberta.com)

## Skills Canada Alberta

Skills Canada Alberta (SCA) will host its annual Provincial Skills Competition in Edmonton on May 29 and 30, 2001. This event will be the qualifier for the Canadian Skills Competition, to be hosted this year by SCA and held in Edmonton on May 31 to June 3, 2001.

Skills Canada is a national nonprofit organization that works with employers, educators, labour groups and the government to position trade and technical careers as a first choice career option for Canadian youth. Their mandate is to look at ways to guide students toward the professional opportunities available in the skilled trade and technology fields. Along with private and public sector partners, Skills Canada is helping to secure Canada's future skilled labour needs.

The goals of Skills Canada are to:

- improve the level of awareness of skills and technologies and their impact on Canadian youth
- create and promote tangible opportunities for the private sector to interact with and enhance education for students pursuing technical career tracks
- improve the image and status of skills and technology career tracks along with the self-esteem and achievement levels of people who pursue them.

For more information about SCA events, contact Karen Fetterly at 780-427-2984, fax 780-422-3745, e-mail [Karen.Fetterly@gov.ab.ca](mailto:Karen.Fetterly@gov.ab.ca).

## Other Potential CTS Resources and Contact Information

### *Nutrition File™ for Health Professionals*—Newsletter Available to Foods Teachers

The Spring 2001 issue of this quarterly newsletter highlights some common nutrition myths and provides research on the facts around each myth. Myths around protein, dairy foods, weight loss and children's diets are addressed.

For a copy of this quarterly newsletter, or to have your name added to the mailing list, contact: Debbie Augustyn, Dairy Nutrition Council of Alberta, 14904 - 121A Avenue, Edmonton, AB T5V 1A3. Telephone: 780-453-5902 (ext. 315), Toll free in Alberta: 1-800-252-7530, E-mail: [daugustyn@dnca.ab.ca](mailto:daugustyn@dnca.ab.ca)

### *EnviroCareers*—A Multimedia Resource on Careers in the Environmental Sector

*EnviroCareers* is a multimedia career planning resource developed by the Canadian Council for Human Resources in the Environment Industry (CCHREI), a national nonprofit organization working to ensure that the skills and knowledge of the environmental work force match the needs of employers. *EnviroCareers* was developed for use by students in grades 8 to 12 and provides information about the wealth of opportunities and rewards that a career in the environmental sector can offer. The resource includes:

- an introductory video that profiles the career paths of 15 young professionals in the environmental sector
- an interactive CD-ROM that provides in-depth descriptions of 31 occupations in the environmental sector and access to a summary of relevant post-secondary training programs in Canada
- a printed career guide that includes most of the above information
- a Facilitator's Guide, with easy-to-use lesson materials
- a tabloid, *EnviroCareers*, that promotes careers in the environment
- a newsletter, *EnviroXchange*, that provides information about employment trends in the environmental industry.

*EnviroCareers* is available in both English and French. A web version of the resource is available through the [CCHREI](#) Web site. For more information, or to obtain a copy of the resource, contact: Robert Lebel, Project Manager, CCHREI, Suite 1450, 700 - 4th Avenue SW, Calgary, AB T2P 3J4. Fax: 403-269-9544, E-mail: [rlebel@cchrei.ca](mailto:rlebel@cchrei.ca)

**Note:** Links are provided to other sites as a service only to identify potentially useful ideas for teaching and learning. The responsibility to evaluate these sites rests with the user.

## Promising Practices in CTS

A *Promising Practices in CTS* (December 2000) document has been developed in response to questions asked about the implementation of CTS. Developed through collaboration with schools, school systems and the CTS Council, the document profiles successful CTS programs and partnerships, and provides examples of how teachers, schools and school systems are implementing specific CTS strands and courses.

*Promising Practices in CTS* is an excellent resource for teachers and administrators who are interested in learning from the experiences of others involved in implementing CTS programs. It is available on the Alberta Learning Web site and provides information about a range of general and strand-specific implementation initiatives and networking opportunities.

Entire Document: [Promising Practices in CTS, December 2000](#)

Promising Practices by Strand:

<a href="#">Agriculture</a>	<a href="#">Fashion Studies</a>
<a href="#">Career Transitions</a>	<a href="#">Financial Management</a>
<a href="#">Communication Technology</a>	<a href="#">Foods</a>
<a href="#">Community Health</a>	<a href="#">Forestry</a>
<a href="#">Construction Technologies</a>	<a href="#">Information Processing</a>
<a href="#">Cosmetology Studies</a>	<a href="#">Legal Studies</a>
<a href="#">Design Studies</a>	<a href="#">Logistics</a>
<a href="#">Electro-Technologies</a>	<a href="#">Management and Marketing</a>
<a href="#">Energy and Mines</a>	<a href="#">Mechanics</a>
<a href="#">Enterprise and Innovation</a>	<a href="#">Tourism Studies</a>
<a href="#">Fabrication Studies</a>	<a href="#">Wildlife</a>

There are many innovative and effective practices taking place across the province. If you would like to share your CTS implementation strategy, Alberta Learning continues to gather examples of such initiatives; e.g., successful courses, effective partnerships, recommended practices. These initiatives may be shared in future updates to *Promising Practices in CTS*.

With any article you submit for *Promising Practices in CTS*, complete a [consent form](#) and forward it to the CTS Unit, Alberta Learning.

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These resources are intended for use with Health and Life Skills, Career and Life Management and CTS Career Transitions teachers; school counsellors; administrators; parents; and other interested parties in your school community.

These resources are available for purchase through the [Learning Resources Centre](#).

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- Student Learning-Career Planner: Middle/Junior High School (Product #440503)
- Student Learning-Career Planner: Senior High School (Product #440511)

The resources are also available for viewing and downloading from the [Alberta Learning](#) Web site.

For more information, contact Karen Fetterly at 780-427-2984, fax 780-422-3745, e-mail [Karen.Fetterly@gov.ab.ca](mailto:Karen.Fetterly@gov.ab.ca).

## Career Initiatives

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### Courses to Careers: Physics Connections

The *Courses to Careers: Physics Connections Teacher's Guide* and *Courses to Careers, Physics* poster are resources designed to help secondary school science teachers promote career development concepts and demonstrate links between the physics curriculum and the world of work.

These resources have been developed in partnership with Alberta Human Resources and Employment. The initiative also supports the Alberta Youth Employment Strategy to assist young people in making a successful transition to the world of work.

The *Courses to Careers: Physics Connections Teacher's Guide* contains the following sections:

- Career Development in the Classroom—a summary of current career development concepts and strategies to help the teacher prepare students for their work futures
- Curriculum and Resource Connections—suggestions for relating career development concepts to specific parts of the physics curriculum
- Physics-related Occupations—descriptions of 125 occupations for which a background in senior high school physics is required or recommended, statements about how physics is connected to each occupation, and a list of the industries where Albertans are employed in related occupations
- Physics-related Industries—descriptions of 13 growing industry sectors and the key driving forces and major trends influencing employment growth in these sectors.

Copies of the *Teacher's Guide* (Product #432774) are available for purchase through the [Learning Resources Centre](#). The poster (Product #418500) is also available, free of charge, from the [Learning Resources Centre](#).

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## What Is ALIS?

The Alberta Learning Information Service (ALIS) is a Web site that provides career, learning and employment information to Albertans and others interested in Alberta information. The site contains:

- over 500 Alberta occupational profiles, including such things as the duties, working conditions, skills and education required, employment outlook, and salary for each
- online career planning tools and career tips to help users determine their personal interests and assist in making educational and career choices
- links to Canadian learning institutions, including those offering distance learning opportunities
- *Youth Links and Youth Connections*, sections of the Web site dedicated to helping young adults make transitions from school to careers, build careers and skills, explore work options, and achieve meaningful employment.

The ALIS Web site can be accessed from the [Related Sites](#) section of the Alberta Learning Web site.

## Distance Learning

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### Overview

New from the Learning Technologies Branch  
Coming Fall 2001

#### Overview

Along with print learning resources, the Learning Technologies Branch (LTB) produces digital learning resources in various subject areas, including complete electronic courses, multimedia segments and electronic explorers. The products can be used alone or to enhance school electronic development programs. Alberta buyers can purchase CDs from the Learning Resources Centre for \$25 each, or less for multiple CD products, such as the Multimedia Chemistry 4-pack, which sells for \$60. Once the CD is purchased, the buyer is licensed to make as many copies as needed for use within the buyer's jurisdiction and to place the contents on a local server. Complete licensing information is available on the CDs and from the LTB.

For information on distance learning products and initiatives, visit the [LTB](#) Web site. For detailed information on product availability, go directly to the [Learning Technologies Branch-Program Resources Branch Distance Learning Production Schedule](#). All LTB products are available for purchase from the [Learning Resources Centre](#) (LRC).

#### New from the Learning Technologies Branch

##### Elementary

###### *Print Courses*

- Grade One Mathematics: Modules 1-9, Home Instructor's Manual and Calendar Package are now available (electronic Teacher's Guide to be available May 2001)
- Grade Four Mathematics: Modules 1-9 are now available (electronic Teacher's Guide to be available May 2001)

###### *Special Interest Modules*

The following integrated courses for grades 4-6, authorized for Alberta classroom delivery, are presently available:

- Backyard Bugs
- Media Messages
- Money Matters
- Pond Life
- Travelling
- What's Cooking?

##### Junior High School

###### *Print Courses*

- Social Studies 8—revisions were made to introduce a new textbook and to make other updates

*Electronic Learning Resources*

- Junior High Science Multimedia Segments, English version

**Senior High School**

*Print Courses*

- Community Health 1010 (electronic Teacher's Guide to be available May 2001)
- Community Health 3030 (electronic Teacher's Guide to be available May 2001)
- Design Studies 2010 (electronic Teacher's Guide to be available in May 2001)
- French 13 (Teacher's Guide to be available May 2001)
- Pure Math 20—revised to meet finalized curriculum

*Electronic Learning Resources*

- CTS Multimedia Segment Collection, English version
- Information Processing Multimedia Segments, Volume 1
- Multimedia Chemistry (4-pack; Windows and Macintosh versions)

**Coming Fall 2001**

**Elementary**

*Print Courses*

- Grade Two Mathematics
- Grade Five Mathematics
- Grade Five Science (developed with Weigl Educational Publishers)
- Grade Four English Language Arts (developed with Weigl Educational Publishers)

*Special Interest Modules*

- Keyboarding
- Handwriting

**Junior High School**

*Print Learning Resources*

- English Language Arts 9
- Junior High English Language Arts Handbook

*Electronic Learning Resources*

- Junior High Science Multimedia Segments, French version

## Senior High School

### *Print Courses*

- Applied Mathematics 20
- Community Health 3010
- Community Health 3020
- Community Health 3040
- Community Health 3140
- Social Studies 20

### *Electronic Learning Resources*

- Construction Technology 2040
- Foods 3070
- Information Processing 1050
- Information Processing 2190
- Information Processing Multimedia Segments, Volume 2
- Mechanics 1040

## English as a Second Language

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For a listing of the most recent resource authorizations for English as a second language (from October 1, 2000 to April 15, 2001), click [here](#).

## English Language Arts

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### Kindergarten to Grade 9

The Kindergarten to Grade 9 English language arts program of studies was successfully implemented during the 2000-2001 school year.

For more information regarding the Kindergarten to Grade 9 program, contact Janet Hancock at 780-427-2984, e-mail <mailto:janet.hancock@gov.ab.ca>

### Kindergarten to Grade 12

Alberta Learning and the Edmonton Regional Consortium are cosponsoring a symposium for leaders in Kindergarten to Grade 12 English language arts on May 14, 2001 in Edmonton.

For more information and a registration form, contact Radhika Conroy at the Edmonton Regional Consortium at 780-492-5339, toll free at 1-888-430-5339.

## Senior High School

**Program of Studies**—The senior high school English language arts program of studies is scheduled for implementation at the Grade 10 level in September 2001. The two courses at the Grade 10 level are ELA 10-1 and ELA 10-2. These courses replace the 10H and 10G course designations in the pilot draft, and English 10 and English 13 in the current program (1981).

**Guide to Implementation**—A Guide to Implementation is currently being prepared to support teachers with the implementation of Grade 10 English language arts. A draft will be available for distribution in June 2001.

**Field Validation and Review of Resources**—Alberta Learning has issued an invitation to school superintendents to nominate senior high school English language arts teachers to participate in two upcoming projects for the 2001-2002 school year.

- Approximately 25 teachers will be selected to field validate English 20-1 and English 20-2 outcomes from the senior high school English language arts program of studies (Interim 2001).
- Approximately 20 teachers will be selected to review student and teacher resources to support the new Grade 11 and Grade 12 English language arts courses.

Teachers interested in being nominated for one of these projects should contact their superintendent. Response has been requested by May 11, 2001.

**Orientation Sessions for the New Program**—One-day orientation sessions on the new program are being given by Alberta Learning staff and some of the teachers from the Grade 10 Field Validation Team through the Alberta Regional Consortia. These sessions will occur across Alberta in May 2001. The dates are as follows: May 8 - Edmonton, May 9 - Edson, May 10 - Red Deer, May 16 - Calgary, May 17 - Brooks, May 18 - Lethbridge, May 25 - Peace River, May 24 - Grande Prairie, and May 29 - Vermilion.

**Authorized Resources**—[Teacher guides](#) for two of the three new basic resources were recently approved. The three new basic resources authorized for Grade 10 include:

- Crossroads 10
- Nelson English: Literature and Media 10
- Sightlines 10 and ResourceLines 9/10

Teachers should carefully preview new resources for gradual phase-in, according to need, community appropriateness and available budget. Schools may wish to continue using current authorized resources. Those resources no longer available from the LRC can be authorized at the local level for continued use in schools.

For more information regarding senior high school English language arts, contact Janet Hancock at 780-427-2984, e-mail <mailto:janet.hancock@gov.ab.ca>

## Enhancing Second Language Learning Project

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Enrollments in second language courses in Grade 10 through Grade 12 have been declining in recent years. This trend is occurring at a time when second language skills have been identified as important. Enhanced second language learning has been identified as a target within Alberta Learning's business plan, with a goal of increased enrollments—29% by 2003 and 33% by 2005.

Alberta Learning has approved the Enhancing Second Language Learning Project to:

- develop recommendations and strategies related to the targeted increase in second language enrollment
- review the capacity of the Alberta Learning system to deliver enhanced second language instruction
- develop a plan to promote awareness of the benefits and opportunities of second language study
- develop partnerships to enhance second language learning.

The Project has undertaken the following research to determine historical as well as current information in regard to second language study in this province:

- a historical overview of second language programming in the basic learning system in Alberta
- a baseline study of the second language credit offerings/programs in Alberta post-secondary institutions
- a study of Grade 9 and Grade 10 students' attitudes toward second language study.

A review of the provincial basic learning system's capacity to deliver enhanced second language programs is under way. Various working groups and an advisory committee are examining questions regarding policy, programming, teacher training, financing programs and student incentives. Representatives from the Alberta Teachers' Association (ATA), College of Alberta School Superintendents (CASS) and Alberta School Boards Association (ASBA) are involved in this review. A draft discussion document will be made available in late spring/early summer. Please contact the appropriate representative association—ATA or CASS—should you wish to provide input into this review process.

The Enhancing Second Language Learning Project will soon be a part of the [Alberta Learning Web site](#). Look for information about the above-mentioned research on the Web site in the near future.

## Fine Arts

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### Art

#### Authorized Resources

For a listing of the most recent resource authorizations for art (from October 1, 2000 to April 15, 2001), click [here](#).

### Drama

#### Authorized Resources

For a listing of the most recent resource authorizations for drama (from October 1, 2000 to April 15, 2001), click [here](#).

### Music

#### General Music 10-20-30 Guide to Implementation

The *General Music 10-20-30 Guide to Implementation* has been developed by Alberta Learning in collaboration with Edmonton School District No. 7. This resource includes teaching and evaluation strategies, activities and sample lessons for the required and elective components of the music courses.

A copy of the guide has been sent to superintendents of schools. Copies are also available for purchase from the [Learning Resources Centre](#).

For more information, contact Jennifer Bushrod at 780-427-2984, e-mail [Jennifer.Bushrod@gov.ab.ca](mailto:Jennifer.Bushrod@gov.ab.ca).

#### Authorized Resources

For a listing of the most recent resource authorizations for music (from October 1, 2000 to April 15, 2001), click [here](#).

## French as a Second Language

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### Beginning Level 2—Junior/Senior High School

The French Language Services Branch is in the process of developing the following kits to assist teachers in effectively implementing the Beginning Level 2 course in either junior high or senior high school:

- *L'habillement*
- *L'alimentation*
- *Le sport et l'exercice*
- *L'habitation*
- *La communauté*

Each kit will contain the following materials: *Cahier d'exercices*, *Feuilles d'activités*, *Tâches*, *Fiches d'évaluation*—all available as blackline masters—*Teaching notes*, transparencies, flash cards and audio CDs. Each kit will also contain other ancillaries, such as a poster or a video. The first two units are scheduled to be available for purchase through the LRC in the fall. The next three units will come on stream in 2002. A Beginning Level 2 - *Manuel d'accompagnement* is also being developed.

For more information, contact Lisa Caouette at 780-427-2940, e-mail [Lisa.Caouette@gov.ab.ca](mailto:Lisa.Caouette@gov.ab.ca).

### Authorized Resources

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## Guidance and Counselling

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### Student Learning-Career Planners

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## Health and Life Skills

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### Health and Life Skills Program

[Kindergarten to Grade 9 Update](#)  
[Professional Development Opportunities](#)  
[Curriculum Facilitators](#)

#### Kindergarten to Grade 9 Update

The aim of the new health and life skills program is to enable students to make well-informed, healthy choices and develop behaviours that contribute to the well-being of themselves and others.

Three general outcomes serve as the foundation for the program. Students will:

- make responsible and informed choices to maintain health and to promote safety for self and others
- develop effective interpersonal skills that demonstrate responsibility, respect and caring in order to establish and maintain healthy interactions
- use resources effectively to manage and explore life roles and career opportunities and challenges.

To help students achieve overall health goals, curriculum connections between services and resources within the school and wider community are needed. In this way, the health of students is viewed as an integral component of a larger system of health within the home, school and community. This comprehensive school health approach involves the establishment of collaborative partnerships among students, parents, educators, health care professionals and other community supports to address social and environmental factors that influence and determine optimal health.

A comprehensive school health program will look different in each school. The needs, issues and concerns of students and their families differ from school to school depending on the age of the student population, geographic location and social climate of the school and community.

**Program of Studies**—It is expected that the field validation draft of the new program of studies will be available in the [Health/Personal Development](#) section of the Alberta Learning Web site by June 1, 2001.

**Guide to Implementation**—Work continues on the Guide to Implementation. This guide will include reproducible student fact sheets; teacher background information boxes; and strategies for parents, community partners and schools to work together to promote student, school and community health.

**Approved Resources**—The Authorized Alberta Resource List for the new program is currently available in the [Health/Personal Development](#) section of the Alberta Learning Web site. An updated list, including human sexuality resources, is scheduled to be posted by the end of June 2001.

Recent resource approvals for the Relationship Choices and Life Learning Choices outcomes in the Grades 5-8 health and life skills program, and for the Life Learning Choices outcome in Grade 9, include components of The Real Game Series. The Make It Real Game in grades 5 and 6, The Real Game in grades 7 and 8, and The Real Game in Grade 9 are experiential programs that offer:

- clearly-defined learning outcomes and performance indicators

- creative role playing
- motivational simulation activities
- fun for students, and teachers, as they learn about adult life and work roles in the context of their own career and educational planning.

Although complete and easy-to-follow lesson plans are provided, training is recommended. If you have 25-30 individuals who are interested and are able to provide a training site and financial support for an Alberta school-based trainer, contact Karen Fetterly and she will coordinate a training session for you. Karen can be reached at 780-427-2984, e-mail [Karen.Fetterly@gov.ab.ca](mailto:Karen.Fetterly@gov.ab.ca).

For a listing of the most recent resource authorizations for health and life skills (from October 1, 2000 to April 15, 2001), click [here](#).

**Implementation Timelines**—Optional implementation will occur in September 2001, and provincial implementation will occur in September 2002. This additional time will allow for further resource development by health partners to support the new curriculum and increased home, school and community partnerships.

### Professional Development Opportunities

**University of Alberta Health Institute**—The University of Alberta is offering a Health Institute in the summer of 2001. This practical accredited course has been designed to assist teachers with planning and implementing the new Kindergarten to Grade 9 Health and Physical Education programs. This course will include assessment, communication and evaluation strategies; integration links; and resource suggestions. You may attend a portion of the course, or, if you meet all of the 39-hour requirements, you will receive 3 (400 or 500 level) university credits. Partial credit is also available. Varying levels of understanding in relation to the new programs will be accommodated through creative programming and assignments. For more information, contact Maryanne Doherty-Poirier, Department of Secondary Education, at 780-492-2218.

**Comprehensive School Health Forum**—The Alberta Coalition for School Health, in partnership with Alberta Learning, the University of Alberta, and the Health and Physical Education Council (HPEC) is hosting a one-day forum on comprehensive school health on May 3, 2001. Healthy Kids Learn Better is designed for administrators, trustees, teachers, school nurses, counsellors, school resource officers, physicians, agency staff, parents and others who are interested in fostering healthy school communities. The day is designed to help you learn more about the critical relationship between health and learning, to increase understanding of the outcomes of the Kindergarten to Grade 9 Health and Life Skills program and to understand your role in supporting a comprehensive approach to developing healthy school communities in Alberta. Dr. Andy Anderson, a professor at the University of Toronto who speaks internationally on health-promoting schools, is the keynote speaker. Doug McCall, from the Canadian Association for School Health, will facilitate a participatory session on how to use a comprehensive approach to achieve health curriculum outcomes. Registration is \$60.00 (\$35.00 for school council representatives or students). For more information, refer to the [Healthy Kids Learn Better Agenda and Registration Form](#).

It should be noted that this forum is scheduled immediately prior to the Health and Physical Education Council's annual conference. Over 20 health-related sessions have been scheduled for the HPEC conference, addressing such topics as mentorship, resiliency, suicide pre/post protocols in schools, portfolios, asset building, sexual violence and body image. Teachers are encouraged to attend and to join the HPEC specialist council of the Alberta Teachers' Association. HPEC provides assistance to its members so that they may improve curriculum and instruction through increased knowledge and understanding. For more information on HPEC, visit the [Schools Come Alive](#) Web site and the [Alberta Teachers' Association](#) Web site.

## Curriculum Facilitators

The Curriculum Branch will be seeking jurisdiction nominees to be considered as inservicing leaders for the new health and life skills curriculum. Letters will be sent to jurisdiction superintendents requesting nominations of health teachers who possess above average organizational and collaborative skills, flexibility, commitment to comprehensive health and/or experience in hosting/presenting inservices and workshops. Those interested in facilitation would find the Alberta Coalition for School Health Forum—Healthy Kids Learn Better—extremely helpful.

Benefits of serving as a curriculum facilitator include increased familiarity with the program of studies and resources, networking opportunities, and development of curricular leadership skills. For more information regarding Kindergarten to Grade 9 Health and Life Skills, contact Deb Worobec at 780-427-2984, fax 780-422-0576, e-mail [Deb.Worobec@gov.ab.ca](mailto:Deb.Worobec@gov.ab.ca).

**Note:** Links are provided to other sites as a service only to identify potentially useful ideas for teaching and learning. The responsibility to evaluate these sites rests with the user.

## Student Learning-Career Planners

Student Learning-Career Planners have been developed for both Middle/Junior High School and Senior High School. In addition, a Student Learning-Career Planner Information Booklet is available.

The two versions of the Student Learning-Career Planner can be used to assist students in their career planning and to support their transitions from:

- junior high school into senior high school
- senior high school into the workplace and/or post-secondary studies.

These resources are intended for use with Health and Life Skills, Career and Life Management and CTS Career Transitions teachers; school counsellors; administrators; parents; and other interested parties in your school community.

These resources are available for purchase through the [Learning Resources Centre](#).

- Student Learning-Career Planner Information Booklet (Product #437576)
- Student Learning-Career Planner: Middle/Junior High School (Product #440503)
- Student Learning-Career Planner: Senior High School (Product #440511)

The resources are also available for viewing and downloading from the [Alberta Learning](#) Web site.

For more information, contact Karen Fetterly at 780-427-2984, fax 780-422-3745, e-mail [Karen.Fetterly@gov.ab.ca](mailto:Karen.Fetterly@gov.ab.ca).

## Information and Communication Technology (ICT)

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For a listing of the most recent resource authorizations for ICT (from October 1, 2000 to April 15, 2001), click [here](#).

## Integrated Occupational Program (IOP)

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- Initial stages of the programs of study for core courses—involving the humanities and mathematics/science—and employability skills are under development.
- The New IOP Advisory Committee met on April 9, 2001.
- A set of foundational principles/key characteristics has been established to guide the development of the New IOP and will be submitted for consideration by the senior officials.

For more information, contact Michael Alpern at 780-422-3272, e-mail [Michael.Alpern@gov.ab.ca](mailto:Michael.Alpern@gov.ab.ca).

## International Languages

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### Ukrainian Language Arts (K-12) Program of Studies

A resource-search draft of a new program of studies for Ukrainian language arts was completed in June 2000. A Call for Resources has been issued, with parallel activity in Ukraine and outside of Ukraine. Resources to match the new program will be chosen in the summer of 2001. Provincial implementation is scheduled for September 2002.

### Spanish Language Arts (K-12) Program of Studies

The Calgary Board of Education and the Edmonton Public School Board, under contract to Alberta Learning, have developed a resource-search draft of a program of studies for Spanish language arts. A Call for Resources for Kindergarten to Grade 3 was issued in March 2001.

The Edmonton Public School Board and the Calgary Board of Education will be initiating Spanish bilingual programs in Kindergarten to Grade 3 in September 2001. Services to the two boards in this new initiative are being provided by Maria Saladich, a Spanish Language Consultant stationed at Alberta Learning by the Ministry of Education, Culture and Sport of Spain.

### Second Language Course Developments

Resource-search drafts of newly revised or developed programs of study will be available in July 2001 for the following language courses:

- German 10-20-30
- German, grades 7-12
- Spanish 10-20-30
- Spanish, grades 7-12
- Ukrainian 10-20-30
- Ukrainian, grades 7-12.

A search for resources will be initiated in the fall of 2001. Provincial implementation of the new programs is tentatively scheduled for September 2002.

Karl Suess, German Language Consultant for western Canada, stationed at Alberta Learning by an agency of the German Federal Government, is facilitating the development of the German courses. Maria Saladich, Spanish Language Consultant, is facilitating Spanish program development. Development of the new programs of study

for Ukrainian has been contracted out to the Edmonton Public School Board under a Request for Proposals process.

## Kindergarten

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### Guide to Implementation: Sharing Visions, Sharing Voices

The *Kindergarten Guide to Implementation: Sharing Visions, Sharing Voices* has been mailed out to superintendents of schools, schools with Kindergarten programs and ECS private operators. Copies are also available for purchase from the [Learning Resources Centre](#).

The guide has been developed by Alberta Learning with help and support from teachers, administrators, parents and professionals from around the province. The purpose of the guide is to provide teachers and administrators with practical advice on implementing the [Kindergarten Program Statement](#) in their classrooms and schools.

For more information, contact Jennifer Bushrod at 780-427-2984, e-mail [Jennifer.Bushrod@gov.ab.ca](mailto:Jennifer.Bushrod@gov.ab.ca).

## Learning Resources Centre (LRC)

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### 2001-2002 Buyers Guide

The LRC 2001-2002 [Buyers Guide](#) was distributed to schools in the second week of March 2001.

### LRC Internet Services

The [LRC Web site](#) provides customers with 24-hour access to LRC products and services. It is the easiest and fastest way to order learning resources, as well as to obtain product information for your curriculum planning.

### Save Money On Your Learning Resources

The LRC has a [new ordering model](#) and a 5% discount for orders placed by April 30, 2001.

There has been an [extension of the discount](#) for the new Grades 7-8 Science resources.

### Learning Resources Credit Allocation (LRCA)

The [Learning Resources Credit Allocation \(LRCA\)](#) is applicable to all purchases from the LRC. The credit allocation is available, up to a specified dollar limit, to eligible or approved Alberta school authorities.

For more information, contact the LRC at 780-427-2767, e-mail [lrccustserv@gov.ab.ca](mailto:lrccustserv@gov.ab.ca), or visit the [LRC Web site](#).

## Mathematics

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### Senior High School

#### [Program Options and Transfer Points](#)

#### [Applied Mathematics](#)

#### [Pure Mathematics](#)

#### [Transitional Mathematics](#)

#### [Mathematics Preparation 10](#)

#### [Post-secondary Acceptance](#)

### Program Options and Transfer Points

Information regarding senior high school mathematics program options, senior high school mathematics transfer points, and post-secondary options is available in the April 2001 Senior High School Mathematics Update on the [Alberta Learning](#) Web site.

### Applied Mathematics

The Assessment Standards and Algebra in Applied Mathematics Committees for Applied Mathematics 10-20-30, composed of teacher representatives from 21 school jurisdictions, have completed a series of reviews of the program of studies. The purpose of these reviews has been to make the algebra more visible and to ensure that the amount of content and level of difficulty is appropriate for each grade level. The proposed changes will be submitted for approval in June 2001 and will be ready for implementation in September 2001.

### Pure Mathematics

The program of studies for Pure Mathematics 10-20 was revised in June 2000, and changes were implemented in September 2000. The amount of content and level of difficulty in each of these courses was modified based on the recommendations of curriculum committees. All changes were mailed to schools and are also posted in the [Mathematics](#) section of the Alberta Learning Web site.

A committee of teachers will gather in June 2001 and continue meeting throughout the 2001-2002 school year to make adjustments to the Pure Mathematics 30 curriculum. Issues related to length of the course and level of difficulty will be addressed. The diploma examination for Pure Mathematics 30 for the 2001-2002 school year will revert to its traditional weighting of 50%.

### Transitional Mathematics

The transitional mathematics course is being designed to provide students with the necessary knowledge and skills for admission to post-secondary programs in lieu of Pure Mathematics 30. It will prepare students for first year mathematics courses at colleges, technical institutes and universities. A commitment has been made that this course will be ready for pilot in the spring of 2001 and will continue to be available for senior high school and post-secondary students in subsequent years.

The course will be delivered through Athabasca University as a distance learning course online, or as print material available to the student. Athabasca University will provide students with learning support that includes either online or telephone tutoring. Students will also be able to access this course while they are registered in senior high school.

Students who complete the transitional mathematics course while at senior high school will have the course funded by Alberta Learning through credit enrollment units. In the long term, this course will be available through Athabasca University and other post-secondary institutions in Alberta, and regular tuition fees will apply. The following topics are proposed for Transitional Mathematics. All students may not require in-depth study of every topic.

Unit 1—Arithmetic and Real Number Line

Unit 2—Algebra and Algebraic Expressions

Unit 3—Functions and Functional Algebra

Unit 4—Polynomials I  
Unit 5—Polynomials II  
Unit 6—Systems of Linear Equations  
Unit 7—Sets and Inequalities  
Unit 8—Trigonometry  
Unit 9—Trigonometric Identities and Equations

### Mathematics Preparation 10

The Mathematics Preparation 10 course was designed to provide weaker Grade 9 students with a wider variety of options in terms of course selection. Upon successful completion of 1, 2, 3, 4 or 5 credits in Mathematics Preparation 10, students can enter Pure Mathematics, Applied Mathematics or Mathematics 24.

As of August 2000, 2700 students completed Mathematics Preparation 10, and 1700 of them went on to complete Pure Mathematics or Applied Mathematics—68% successfully completed Pure Mathematics 10, and 72% successfully completed Applied Mathematics 10.

**New Resource for Mathematics Preparation 10 Course—Nexus: Mathematics Preparation 10** is a Student Text and Teacher's Resource Manual with a 100% fit to the Alberta Program of Studies for Mathematics Preparation 10. The materials are scheduled to be authorized this spring and available for purchase from the [Learning Resources Centre](#) over the summer, in time for September 2001 implementation. Since students have previously studied the topics of this course in previous grades, the approach taken is that of a review of the material. The following are some of the features of the Student Text and Teacher's Resource Manual:

- Various problem-solving mini-activities are interspersed.
- In both the Teacher's Notes and the Student Activities, an attempt has been made to address deficiencies in basic understanding of concepts.
- A hands-on approach and the use of various manipulatives are encouraged, but the only manipulatives required are scientific calculators, graph paper and algebra tiles.
- Many of the lessons allow for a self-directed approach, but these same lessons can be used as a follow-up to a presentation by the teacher.
- The Student Text contains activities, a glossary and answers.
- The Teacher's Resource Manual contains the outcomes, prerequisites, materials, extensive teacher's notes, reduced student pages, a pre-test and an appendix.
- The pre-test will allow teachers to determine such things as the outcomes in the course that need to be emphasized and the outcomes that can be de-emphasized.

### Post-secondary Acceptance

Each post-secondary institution has its own entrance requirements that can change at any time. Information about post-secondary institutions can be found through the [Alberta Learning Information Service \(ALIS\)](#) Web site. Information can also be found in the [Mathematics](#) section of the Alberta Learning Web site. The following is a brief summary of the information contained on these Web sites. It is recommended that students also consult with their school counsellor or the registrar's office at the particular post-secondary institution for the most current information.

**Universities**—Students with Pure Mathematics can gain entrance to all university programs. Students with Applied Mathematics 30 can gain admission to a limited number of university programs, and their ability to change programs after admission may also be limited. Students with Applied Mathematics and a second language to the 30 level can gain admission to some arts and fine arts programs. Students contemplating a university degree program are advised to enroll in the Pure Mathematics sequence, particularly if they are not studying a second language.

**Colleges/University Colleges and Colleges with University Transfer Programs**—There are approximately 15 publicly-funded institutions in this category offering a wide array of diploma and certificate programs. Applied Mathematics or Pure Mathematics is accepted for the vast majority of these programs, just as the Mathematics 13-23-33 and Mathematics 10-20-30 sequences had been previously accepted for admission.

Admission requirements for university transfer programs at a college are the same as for entrance into the university program the student has chosen. Requirements for entry into degree programs at colleges are similar to those for the corresponding programs at large universities.

**Technical Schools**—The two technical schools in Alberta offer a spectrum of diploma and certificate programs, ranging from engineering technology programs that require rigorous mathematics and science prerequisites, to apprenticeship and trade programs that require Grade 10- or Grade 11-equivalent mathematics.

For more information regarding senior high school mathematics, contact Katie Pallos-Haden at 780-422-3220, e-mail [Katie.Pallos-Haden@gov.ab.ca](mailto:Katie.Pallos-Haden@gov.ab.ca).

**Note:** Links are provided to other sites as a service only to identify potentially useful ideas for teaching and learning. The responsibility to evaluate these sites rests with the user.

## Other News

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### 2001 World Championships in Athletics—Education Initiatives

The [8th IAAF World Championships in Athletics](#), the third largest sporting event in the world, will be held in Alberta this summer. International events such as these offer unique educational opportunities to motivate our students, as they are timely, provide authentic "real-world" connections and are supported through media awareness. Initiated by members of the College of Alberta School Superintendents (CASS), a number of resources have been developed to support teachers' integration of this event into their classrooms. All of these resources can be accessed through the [2001 education](#) Web site as well as by linking directly to each item listed below.

- [Our Schools in Action](#)—This resource provides integrated lessons for Kindergarten to Grade 6 and Grade 7 to Grade 12 that support implementation of the Alberta physical education program of studies and integrate activities related to the outcomes and concepts of the 2001 Championships in Athletics. The lessons address many different subject areas and address themes of Global Friendship, Well-being, Citizenship, and Run, Jump, Throw.
- [Run, Jump, Throw ... and Away We Go!: Kindergarten to Grade 12 Teacher Resource](#)—This resource supports implementation of the Alberta physical education program of studies and focuses on running, jumping and throwing skills.
- [Run Jump Throw Passport](#)—This resource provides a tracking system for students in grades 3 to 6 who are participating in various running, jumping and throwing events, both at school and in the community.
- [Active Living Log](#)—This resource provides an electronic tracking system for students to record their participation in running, jumping and throwing activities.
- [Workshops](#)—A variety of teacher workshops will be held to provide an awareness of the teacher resource and to provide training about running, jumping and throwing teaching techniques. Schools Come Alive will also offer workshops about the education initiatives. For more information about these workshops, visit the [Schools Come Alive Web site](#) or telephone Schools Come Alive at 780-454-4745.
- [Awards](#)—As a result of sponsorship from EPCOR and Esso, each school jurisdiction will be able to recognize one senior high school student who demonstrates athletic excellence, good sportsmanship and models an active lifestyle. Each award recipient will receive tickets to the championships and one night accommodation in the Edmonton area.

- [French Resources](#)—Resources are also available in French and have been distributed to all Francophone and Immersion schools.
- [ICT Outcomes](#)—A number of lessons have the ICT outcomes integrated. These lessons can be accessed through the <http://www.2learn.ca/> Web site. A number of Web sites to support implementation of the 2001 education initiatives are also accessible through the ICT Outcomes section of the 2001 education Web site.

For more information on any of the resources, contact Val Olekshy at 780-415-8191, e-mail [Val.Olekshy@gov.ab.ca](mailto:Val.Olekshy@gov.ab.ca).

**Note:** Links are provided to other sites as a service only to identify potentially useful ideas for teaching and learning. The responsibility to evaluate these sites rests with the user.

## Physical Education

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### Physical Education Program

#### Program of Studies and Guide to Implementation

An extensive consultation and pilot process has contributed to the development of the physical education program of studies and guide to implementation. The program of studies was approved by the Minister of Learning and distributed to schools in June 2000. The guide to implementation, a support resource containing illustrative examples, assessment strategies and planning tools, is available for purchase from the [Learning Resources Centre](#) (Product # 425597). Both the program of studies and the guide to implementation are available for viewing and downloading from the [Alberta Learning](#) Web site.

The aim of the new Kindergarten to Grade 12 physical education program is to enable individuals to develop the knowledge, skills and attitudes necessary to lead an active, healthy lifestyle. Alberta Learning wishes to thank all those who provided advice and support during the development process from 1997 to 2000.

#### Implementation Assistance

The [physical education online](#) Web site provides resources that have the potential to assist teachers with implementation.

Visit the following links on the site:

- [Physical Education Authorized Resources](#)—a searchable database of resources by outcomes, dimension, title or author.
- [Lesson Plans](#)—a database of teacher-generated lesson plans that address specific outcomes. Create your own lessons to share, or view others that have been submitted.
- <http://www.2learn.ca/netsteps/netstepmenu.asp>—includes a number of lessons and unit ideas that align with the new program.
- [Guide to Implementation](#)—includes a number of resources that teachers have identified as needed. Check out the lesson plan template in Appendix A.
- [General Outcome B](#)—this general outcome of the new program was identified by teachers as being problematic to implement. This link includes activities that address the outcomes and reinforce the messages the new curriculum presents in regard to health-related fitness. Check this link out—it is one of the best-kept secrets of the entire site!

The Home Education section of the physical education online Web site is provided for home education students, and the adults who monitor their programs, to assist with delivery of the new physical education program.

Visit the following links in this section of the Web site:

- [Introduction for students](#)
- [Introduction for parents and educators](#)
- [Orientation to the site for students](#)
- ["Tracker"](#) personal database program for students/educators to "track" physical activity involvement
- [Sample activities](#)

### Upcoming Professional Development Activities

- The ATA Health and Physical Education Council (HPEC) Conference will be held on May 3 to May 5, 2001. For information about this conference, visit the [HPEC 2001](#) Web site.
- A curriculum workshop regarding assessment, evaluation and communication of student learning will be held on May 3, 2001. This one day workshop will be facilitated by Alberta Learning and the Alberta Assessment Consortium (AAC) and will feature Alberta teachers sharing strategies that work in the physical education classroom. Those interested in attending this workshop should complete the [registration form](#) and return it to Alberta Learning by April 27, 2001.

### Authorized Resources

For a listing of the most recent resource authorizations for physical education (from October 1, 2000 to April 15, 2001), click [here](#).

**Note:** Links are provided to other sites as a service only to identify potentially useful ideas for teaching and learning. The responsibility to evaluate these sites rests with the user.

## Policies and Regulations

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[Guide to Education: ECS to Grade 12](#) includes policies, procedures and organizational information required to operate schools.

For information on policies and regulations, refer to the [Policy, Regulations and Forms Manual](#).

- [Policy 3.6.1 - Private Schools](#) and the [Private Schools Regulation](#) govern the operation of private schools.
- [Policy 3.5.1 - Review by the Minister](#) describes the process for reviews by the Minister of school board decisions.
- [Policy 3.5.3 - Attendance Board](#) describes the process of Attendance Board hearings for students who are not attending school.
- [Policy 3.5.2 - Special Needs Tribunal](#) describes the process used to conduct a Special Needs Tribunal for students referred by a school board, where a board cannot provide an education program.

For more information regarding policies and regulations, contact Valerie Keates at 780-427-7235, fax 780-427-5930, e-mail [Valerie.Keates@gov.ab.ca](mailto:Valerie.Keates@gov.ab.ca).

## Professional Development and Certification

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### [Regional Professional Development Consortia Certification of Substitute Teachers](#)

#### Regional Professional Development Consortia

The six regional professional development consortia have enjoyed a very successful school year to date, offering a variety of professional development activities to the education community.

These activities address a variety of issues identified by the field and continue to focus on secondary mathematics, literacy, computer technology and various growth opportunities connected to curriculum changes.

The consortia have also co-sponsored two successful conferences, which attracted participants from around the world. Current research and clinical work add continuously to our understanding of how children and adults learn, and the array of topics at these conferences spoke to the broader framework of learning and teaching and to the audiences that have an effect on the education of our children.

The first conference, *Adult Learning for Students' Sake*, laid the groundwork for developing leadership capacity at the school level. Featured speakers were Linda Lambert, Joellen Killion and Barry Bennett, three highly respected educators. At this conference, an Alberta Chapter of the National Staff Development Council was formed to promote effective professional development in this province.

The second conference, *Reaching and Teaching*, was held in Calgary. Learning Minister Lyle Oberg opened the conference. Participants came from across Canada, the United States, New Zealand and Australia. The target audience included district administrators, trustees and parents, as well as teachers. "Leadership and the New Science," "Teaching with the Brain in Mind" and "Multiple Intelligences in the Classroom" all addressed what is now known about how children and adults learn. Other topics; e.g., "Shaping School Culture," "The Power and Promise of Meaningful Leadership" and "Creating Learning Organizations," addressed the importance of the learning environment, as educators try to develop the best settings possible to enhance opportunities for student learning. "Activating Habits of Mind" and "They Become What We Think They Are" addressed the impact of teacher expectations and practices on student learning.

The regional consortia continue to promote and model standards for effective professional development, including the following:

- Professional development results in increased student learning.
- To be effective, professional development is job-embedded and developed with input from the field.
- Professional development must be continuous and supported, be information-rich, and enhance effective teaching practice.
- To increase teacher buy-in, professional development is school-based and uses a collaborative problem-solving strategy.
- To be meaningful, professional development must be part of a comprehensive change process.

For more information about the regional consortium in your area, contact the Executive Director at the address below:

#### Alberta Regional Consortia

[Northwest Regional Learning Consortium](#)—Karen Egge, Executive Director  
Telephone: 780-864-2767 or 1-800-864-4140, Fax: 780-864-2773,  
E-mail: [nrlc@agt.net](mailto:nrlc@agt.net)

[Learning Network, East Central Regional Consortium](#)—Earl Choldin, Executive Director

Telephone: 780-492-0234 or 1-888-945-5500,

Fax: 780-492-0390, E-mail: [learnnet@ualberta.ca](mailto:learnnet@ualberta.ca)

[Central Alberta Regional Consortium](#)—Shirley Van Eaton, Executive Director

Telephone: 403-357-3626, Fax: 403-357-3642,

E-mail: [svaneaton@rdc.ab.ca](mailto:svaneaton@rdc.ab.ca)

[Edmonton Regional Consortium](#)—Pearl Gregor, Executive Director

Telephone: 780-492-5339, Fax: 780-492-9972 or 1-888-430-5339,

E-mail: [erc@ualberta.ca](mailto:erc@ualberta.ca)

[Calgary Regional Consortium](#)—Jean Hoeft, Executive Director

Telephone: 403-291-0967, Fax: 403-250-3904,

E-mail: [crc@rockyview.ab.ca](mailto:crc@rockyview.ab.ca)

[Southern Alberta Professional Development Consortium](#)—Gary Heck, Executive Director

Telephone: 403-381-5580, Fax: 403-381-5709, E-mail: [sapdc@uleth.ca](mailto:sapdc@uleth.ca)

### Certification of Substitute Teachers

Under the Certification of Teachers Regulation (Alberta Regulation 3/99), a superintendent or other office must make a recommendation to issue or not issue a permanent professional teaching certificate to a teacher who has completed two years of teaching while holding a valid Alberta interim professional certificate. Under the provincial Teacher Growth, Supervision and Evaluation Policy, at least two evaluations are required before a teacher may be recommended for issuance of a permanent professional certificate.

The requirement to conduct two evaluations for substitute teachers has proven difficult to implement, given the short-term nature of substitute assignments. A guide has been developed that recognizes the obligations of both the superintendent, or recommending officer, and the teacher to ensure that the teacher meets the expectations of the Teaching Quality Standard Ministerial Order (016/97) in respect to permanent certification.

### Guide for Recommendations for Permanent Professional Certification of Substitute Teachers

Substitute teachers who possess an interim certificate should:

- a. remind their superintendent or signing officer (recommending officer) that they soon will be eligible for permanent certification and require an evaluation
- b. provide their superintendent or signing officer (recommending officer) with the necessary records of previous employment with other Alberta authorities
- c. collect appropriate artifacts of their teaching practice to demonstrate as much as possible that their practice meets the requirements of the Teaching Quality Standard Ministerial Order in respect to permanent certification
- d. encourage their principal and/or superintendent or signing officer (recommending officer) to schedule direct observation of teaching practice.

The principal and/or superintendent or signing officer (recommending officer) should:

- a. ensure that the substitute teacher who shortly will be eligible for permanent certification be evaluated
- b. wherever possible, schedule direct observation of the substitute teacher's teaching practice
- c. review and assess artifacts provided by the substitute teacher for purposes of determining that the teacher's practice meets the requirements of the Teaching Quality Standard Ministerial Order applicable to permanent certification
- d. comply with the requirements of the regulation and recommend that a permanent professional teaching certificate be issued or not be issued
- e. where there is insufficient information at hand to make a judgement about permanent professional certification, recommend that a permanent professional certificate not be issued or recommend extension and reissuance of an interim certificate.

For more information, please visit the [Requirements for Teacher Certification](#) section of the Alberta Learning Web site.

**Note:** Links are provided to other sites as a service only to identify potentially useful ideas for teaching and learning. The responsibility to evaluate these sites rests with the user.

## Science

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### Authorized Science Resources

For a listing of the most recent resource authorizations for science (from October 1, 2000 to April 15, 2001), click [here](#).

### Courses to Careers: Physics Connections

The *Courses to Careers: Physics Connections Teacher's Guide* and *Courses to Careers, Physics* poster are resources designed to help secondary school science teachers promote career development concepts and demonstrate links between the physics curriculum and the world of work.

These resources have been developed in partnership with Alberta Human Resources and Employment. The initiative also supports the Alberta Youth Employment Strategy to assist young people in making a successful transition to the world of work.

The *Courses to Careers: Physics Connections Teacher's Guide* contains the following sections:

- Career Development in the Classroom—a summary of current career development concepts and strategies to help the teacher prepare students for their work futures
- Curriculum and Resource Connections—suggestions for relating career development concepts to specific parts of the physics curriculum
- Physics-related Occupations—descriptions of 125 occupations for which a background in senior high school physics is required or recommended, statements about how physics is connected to each occupation, and a list of the industries where Albertans are employed in related occupations
- Physics-related Industries—descriptions of 13 growing industry sectors and the key driving forces and major trends influencing employment growth in these sectors.

Copies of the *Teacher's Guide* (Product #432774) are available for purchase through the [Learning Resources Centre](#). The poster (Product #418500) is also available, free of charge, from the [Learning Resources Centre](#).

## Junior High School Science Update

### Program and Resource Update

The field validation of the draft program of studies and draft learning and teaching resources for Grades 7-8 Science was completed in December 2000. The collective experience of teachers in the field validation provided valuable feedback to the publishers preparing the final student resources, which are scheduled to be available in the [Learning Resources Centre](#) in June 2001. Optional implementation of Grades 7-8 Science is in September 2001, and provincial implementation is in September 2002. The field validation of Grade 9 Science will take place from September to December 2001 with draft resources.

### Extension of Discount for New Grades 7-8 Science Resources

In response to a considerable number of inquiries received from Alberta schools and school authorities, the Learning Resources Centre (LRC) and the Learning and Teaching Resources Branch of Alberta Learning are pleased to advise you of the following important information:

The opportunity to apply the Learning Resources Centre's 5% discount to purchases of new basic learning resources for the revised Grades 7-8 Science program is being extended. For purchase of English language editions of new science resources, eligibility for the 5% LRC discount is extended to June 30, 2001. For French language editions, eligibility for the 5% LRC discount is extended to January 31, 2002.

**Please note this extension applies only to new materials developed for the revised Grades 7-8 Science program and is being provided on this one-time basis only.** Authorizations of new resources for this revised program have not yet been made, and will likely be issued in early May for the English editions, and in December for French language editions. This extension provides an opportunity for schools to examine new materials before committing to a quantity purchase. Questions regarding order procedures for new resources can be directed to Garry Sluchinski at the Learning Resources Centre; telephone 780-427-2767, fax 780-422-9750, e-mail [garry.sluchinski@gov.ab.ca](mailto:garry.sluchinski@gov.ab.ca).

### SciTech - Students as Scientists and Engineers

Dr. Paul Wozny, Science Department Head at Ecole Secondaire Beaumont Composite High School, has implemented a locally developed and approved course offered at the secondary education level. The SciTech program involves a "hear, see and do" mode of teaching science and technology in secondary education. The emphasis of this learning facility/system is on hands-on experimental science and technology projects that incorporate mathematics, physics, biology, chemistry and medical sciences at a level challenging the abilities of the student. The curriculum is integrated into the completion of academically rigorous laboratory projects, reinforcing scientific inquiry coupled with computer technology. The modern tools of technology are used in the completion of these projects; i.e., computers—graphing programs, spreadsheets, computer-assisted design, e-mail, Internet.

The SciTech program of studies will:

- develop understanding and skills in scientific experimental methods and related technological tools and techniques
- use computers and software as tools of the scientist; e.g., spreadsheet, database, graphing, e-mail, statistics, Internet
- develop safe and highly skilled science laboratory techniques
- use and develop advanced mathematics skills, including algebra, trigonometry, geometry, statistics, error analysis, elementary calculus
- develop scientific team-working skills
- foster a positive and dynamic learning environment, celebrating the values and challenges of quality scientific research and experimentation
- establish lines of communication with post-secondary education facilities, allowing for scholarly exchange of information and ideas
- build a multilingual Internet Web site; e.g., English, Spanish, Japanese, French, Cree, specifically dedicated to the development and utility of the SciTech program of studies. This Web site will allow other teachers and schools to use the courseware with the aim of sharing ideas and research
- publish an online science and technology journal, *Canadian SciTech Journal - Research in Science, Technology and Learning*, which will highlight students' research and results in the SciTech program on an annual basis.

The resources developed by the SciTech program will be made available to schools via the Internet and other electronic communication mechanisms. Partnerships with technical schools, universities, colleges and high-tech firms will enhance the delivery of relevant, up-to-date instructional technology.

This project has created genuine interest in learning for the students involved, as the enrollment numbers have increased by 100 students per year. Other school jurisdictions have expressed interest in this program.

### SciTech Peace Project—International Video Conference 2001

This video conference took place March 16, 2001 at the University of Alberta, Department of Extension. Students were linked with the Johnson Space Centre in Texas and the University of Calgary. Students had the opportunity to talk with scientists, engineers and astronauts involved with the International Space Station.

For more information regarding the SciTech program and the SciTech Peace Project, contact Dr. Paul Wozny at 780-929-6282 (Ext. 1349), fax 780-929-1323, e-mail [pwozny@blackgold.ab.ca](mailto:pwozny@blackgold.ab.ca).

## Senior High School Science Update

### Science 14-24

The first drafts of the learning and teaching resources being developed for Science 14 are currently being reviewed. The resulting field validation drafts of these resources will be made available to field validation teachers at the orientation session scheduled for the end of June. Field validation of Science 14 will take place in the fall of 2001. A similar process will be followed for Science 24 next year.

### Science 10

The resource development draft of the Science 10 program of studies is posted in the [Science](#) section of the Alberta Learning Web site. Publishers have been asked to submit their proposals for the development of learning and teaching resources by mid-May 2001.

## Social Studies

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For current information on K-12 social studies, please refer to *What's Happening in Social Studies*, available through the [Alberta Learning](#) Web site.

## Special Programs

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### Home Education

Parents who choose to educate their children at home assume primary responsibility for delivering and supervising their child's courses of study, and work as partners with a school board or accredited private school to ensure the child's educational goals are being met. The [Home Education Information Package](#) includes the home education regulation and policy.

### Outreach Programs

In spring 2000, an information gathering survey was conducted by Alberta Learning. Of the 75 mail surveys that were sent to principals/administrators of Outreach programs, 52 surveys were completed and returned. The results are included in the [Outreach Programs Newsletter](#).

## Student Health Initiative

The *Student Health Partnership Service Plan Guidelines for 2001/2002* and the *Student Health Partnership: Annual Report Guidelines for 2000/2001 and 2001/2002* have been released. They are available for viewing and downloading from the [Student Health Initiative](#) section of the Alberta Learning Web site.

## Special Education Review

[Shaping the Future for Students with Special Needs: A Review of Special Education in Alberta](#) was released December 11, 2000 and contains 66 recommendations to improve education for students with special needs.

- The government accepted in principle the recommendations of the report. Some of the recommendations were implemented immediately, while others will be addressed through the government's business planning process.
- [Building the Future Together](#) is a newsletter that will keep stakeholders, partners and clients updated on what is happening with respect to the implementation of the Special Education Review recommendations.
- For more information regarding the Special Education Review, contact Anne-Louise Charette at 780-422-6326, e-mail [Anne-Louise.Charette@gov.ab.ca](mailto:Anne-Louise.Charette@gov.ab.ca).

## Early Literacy Initiative (ELI)

The report on the findings of the [Early Literacy Initiative Review](#) was recently released by the System Improvement and Reporting Division of Alberta Learning. The ELI Review was conducted between May and November 2000 and involved the following activities:

- a review of relevant literature
- a survey sent to a 25% sample of schools offering ECS, Grade 1 and Grade 2
- two conferences of jurisdiction-based early literacy coordinators
- a review of Alberta Initiative for School Improvement (AIS) projects related to literacy
- a review of achievement test results
- analysis and reporting on the results of the above activities.

## Authorized Resources

For a listing of the most recent resource authorizations for special education (from October 1, 2000 to April 15, 2001), click [here](#).

## Testing

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### Diploma Examinations Program

#### School and School Authority Reports—January Diploma Examinations

School Reports and School Authority Reports on the January 2001 diploma examination results are now available on the Extranet. This information is provided to support program planning locally. These results will be combined with the results from all other examination administrations for the annual release of results on September 10, 2001. Please note that school and school authority reports are not provided for Mathematics 30 (old program), since the examination is secured.

For more information about the school and school authority reports, contact Ron Cammaert at 780-427-0010, e-mail [Ron.Cammaert@gov.ab.ca](mailto:Ron.Cammaert@gov.ab.ca).

## School Achievement Indicators Program (SAIP)

### Mathematics Assessment

The third SAIP mathematics assessment will be administered in selected schools across the province during April and May. Samples of students aged 13 and 16 have been randomly selected for participation in this assessment. This is the beginning of the third cycle of SAIP assessments, which are administered in consecutive years in mathematics, reading/writing and science. SAIP is sponsored by the Council of Ministers of Education, Canada (CMEC). Alberta Learning staff members appreciate the cooperation of school system staff in the administration of these assessments.

For more information, contact Ron Cammaert at 780-427-0010, e-mail [Ron.Cammaert@gov.ab.ca](mailto:Ron.Cammaert@gov.ab.ca).