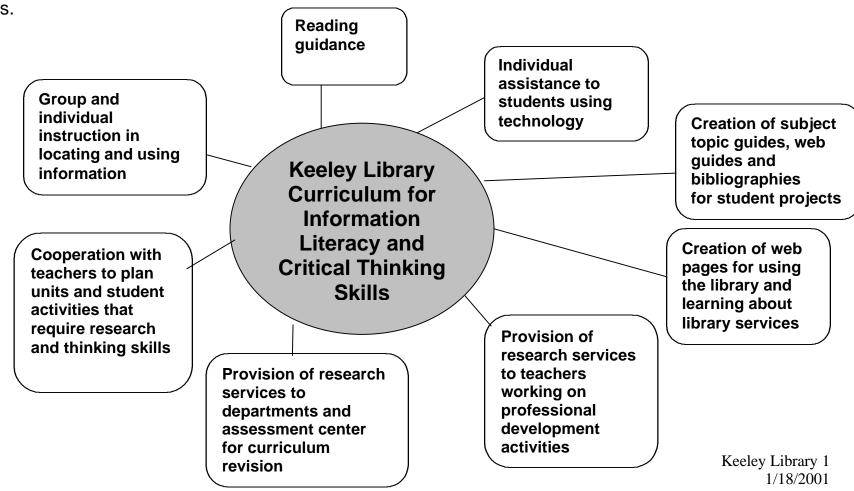
Keeley Library Curriculum for Information Literacy and Critical Thinking Skills

Unlike subject department curricula which are linear, our curriculum is more web-like to reflect the kind of support we provide. Our services are provided in response to the learning needs of individual teachers, classes and students at individual times.

Our curriculum, in part, is a book of instructional strategies that are used to help students become skilled users of information. In practice, we help this to happen by planning units with teachers, providing instruction in information access, and helping individual students and teachers meet needs on a daily basis.



THINKING SKILLS

Content Standard: Students will access, evaluate, and apply information efficiently and effectively from a variety of sources in print, nonprint, and electronic formats to meet personal and academic needs Rationale: Today's students face a present and future in which they will encounter unprecedented access to ever increasing amounts of information. Students must be prepared to evaluate critically each item of information in order to select and use information effectively in learning and decision-making for personal growth and empowerment. This critical evaluation requires that students have frequent opportunities to learn how knowledge is organized, how to find information, and how to use information in such a way that others can learn from them. Mastery of information and inquiry skills will prepare students to participate in a rapidly changing, information-based environment. Wisconsin's Model Academic Standards for Information And Inquiry

Basic skills
will become
internalized
if they are
introduced
early and
reinforced
throughout a
student's
educational
experience.

FOCUSING SKILLS

INFORMATION
GATHERING SKILLS

ORGANIZING SKILLS

SYNTHESIZING SKILLS

EVALUATING SKILLS

INFORMATION GATHERING SKILLS

ORGANIZING SKILLS

ORGANIZING SKILLS

→ Record and organize information.

Interpret and use information to solve the problem or answer the question.

COMMUNICIPATION AND THE SIZING SKILLS

ORGANIZING SKILLS

→ Communicate the results of research and inquiry in an appropriate format.

Evaluate the information product and process.

At the high school level, information skills acquired from grades 1-8 should be reinforced and refined. To do this, students must be given assignments that require them to use these information skills.

Information Literacy is a broad concept that requires the cooperation of many stakeholders. Since ours is a large, comprehensive high school with one librarian responsible for approximately 3,000 students, teaching information literacy skills becomes a shared responsibility that requires the cooperation of classroom teachers and support specialists.

Students begin to learn these skills in the elementary and middle grades. Previous learning should be reinforced and refined at the high school through practice in carrying out purposeful projects such as reports, debates, oral presentations, and similar activities as part of class lessons or units of study.

TEACHER

Helps student to define or focus assignment topic.

Tells student what kind of product is required and how it should be organized.

Monitors student progress and helps student stay on track by having a timeline.

Finds out which students might need instruction in using information tools.

STUDENT AS KNOWLEDGE SEEKER:

- Focusing
- Information Gathering
- Organizing and Analyzing
- Synthesizing
- Evaluating

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LIBRARIAN

Helps teacher to plan project at teacher's request.

Determines availability of resources.

Prepares topic guides for students.

Provides instruction in information tools needed for project on a class, small group, or individual basis as determined by each situation.

Helps individual students to locate and use information for project.

Project-based learning is an important element in the teaching of critical thinking and information problem solving. Responsibility is shared among teachers and support specialists.

TEACHER:

Considers the ability level of the class and gives assignments which require the student to produce a product. Product can be simple or complex, depending on the class. (See attached list of possible products.)

STUDENT AS QUALITY PRODUCER

- Understands what a quality product is
- Plans quality products
- Creates quality products
- Presents quality products
- Evaluates quality products

TELEVISION MEDIA SPECIALIST

Teaches classes in media. Works with teachers to help students evaluate media. Helps teachers and students to videotape class performances for evaluation. Helps students to produce video reports.

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LIBRARIAN

Helps student to locate background information, images, and statistics for the speech, survey, debate, poster, presentation, persuasive essay, chart, storyboard, news article, research paper, game or other product.

COMPUTER TECHNOLOGY SPECIALIST

Teaches the student how to do the word processing report, outline, table of contents, database reports, graphs, charts, PowerPoint presentation, web page, and other technology related projects.

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POSSIBLE END PRODUCTS

Electronic Productions/

Computer Games Movie/Radio/TV Play Musical Recording Radio or TV documentary Talk Show Radio/TV Report Radio or TV Ad Use spreadsheet to Slide/Tape Show/Filmstrip Use a database to.....

Use word processing to...

Portfolios

Art Portfolio Writing Portfolio Mixed Portfolio

Artistic Products and Forms

Poster Drawing, Etchina. Lithograph Cartoon

Sculpture, Monument **Editorial Cartoon**

Diorama

Bulletin Board Display Collage, Montage

Label or Container

Mixed Media

Game Mobile

Computer Graphics Painting, Mural

Jewelry and Clothing

Photo Essav

Graphic Organizers

Flowchart Table

Map/Globe

List Chart

Timeline

Schematic

Drawing/

Blueprint

Overhead

Transparency

Individual and Group Presentations/Performances

Group presentation Informative or Persuasive Speech Panel Discussion Sing or Play an Instrument

Demonstration/Exhibit Oral Presentation Information/Interview Role Playing

Theatricals (Skit, Play, Puppets, etc.) Job Interview

Character/Person Portrayal Student-led Conference Fairs (History, Science etc.) Reenactment

Musical Rap/Jingle Teach a Lesson

Marketing/ Political Campaign Meeting of the Minds Rope Jumping and Other Routines

Competitions

Technical Writing Forms and **Technical Products**

Technical Report,

Manual

Create a Plan/Design

Instructions Survey/Poll Sales Pitch

Explain Solution to a

Problem

Scale or Working Model

Explain Products and

Services

Mathematical Model

Lab Report Assembly Line Conclusions from

Analysis Recipe

Request Ideas/Input

Checklist

Request Authorization Actual Product/Invention

Explain a Procedure

Technical Specifications

Explain a Policy Place an Order

Propose a Plan Make a Complaint

Thank an Employee or

Customer Make a Bid

Explain a Change Create a Rubric

Scale drawing

Written Forms

Report/Research

Paper

News Story

Journal

Poetry **Editorial**

Sales Brochure

Feature Story

Position Paper

Letter to the Editor

Summary

Analysis/Critique/

Review Outline

Letter

Travel and Other

Brochure

Advertisement

Itinerary/Travelogue

Magazine Article

Policy/Law

Whole Magazine

Character Sketch

Story/Tale/Fable/ Comic Book

Perspective/

Points of View

Reprinted and adapted from: "Complete Guide to Performance-Based Learning" by John D. Wessels, PhD

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Life-long learning is a process that results from habits of mind learned early and reinforced throughout a student's education. We all have a stake in helping students acquire these habits.

TEACHER:

Uses questioning techniques that promote student curiosity and student thinking. (See list of questions.) Encourages students to use a wide variety of information sources and presentation tools to explore topics of interest and develop creative potential.

STUDENT AS SELF-DIRECTED LEARNER

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- Sets goals
- Reads for pleasure
- Uses media sources for information and personal needs
- Seeks answers to questions
- Explores topics of interest

COMPUTER TECHNOLOGY SPECIALIST AND TELEVISION MEDIA SPECIALIST:

Provide guidance to classes and individual students on creative aspects of product or presentation.

LIBRARIAN:

Provides reading guidance. Helps student locate information in many formats for personal needs and interests.

Provides assistance in using computer applications on an individual basis as needs arise.

? QUESTIONS THAT PROMOTE THINKING

1. KNOWLEDGE LEVEL (DEFINE, FOCUS)

- What happened after?
- How many....?
- Who was it that....?
- Describe what happened at...?
- Who spoke to....?

2. COMPREHENSION LEVEL

- Can you write in your own words....?
- Write a brief outline.....
- What do you think could have happened next....?
- Who do you think.....?
- What was the main idea?
- Who was the main character?
- Can you distinguish between....?
- What differences exist between...?
- Can you provide an example of what you mean by....?
- Can you provide a definition for....?

3. ANALYSIS LEVEL

- Which event could not have happened if....?
- If....happened, what might the ending have been?
- How was this similar to....?
- What was the underlying theme of....?
- What do you see as other possible outcomes?
- Why did....changes occur?
- Can you compare your....with that presented in....?
- What must have happened when....?
- How is...similar to....?
- What are some of the problems of....?
- Can you distinguish between...?
- What was the turning point in the story?
- What was the problem with....?
- What were some of the motives behind....?

Quoted directly from Covington's *Higher Order Thinking Skills* http://www.covington.k12.tn.us/resources/word/hots1.htm

4. SYNTHESIS LEVEL

- Can you design a....to....?
- What is a possible solution to....?
- What would happen if....?
- If you had access to all resources, how would you deal with....?
- How would you devise your own way to....?
- How many ways can you....?
- Can you create new and unusual uses for....?
- Can you develop a proposal that would....?
- How would you compose a song about....?
- Can you write a new recipe for a tasty dish?

5. EVALUATION LEVEL

- Is there a better solution to....?
- Judge the value of....?
- Defend your position about....?
- Do you think....is a good or bad thing? Explain.
- How would you have handled....?
- What changes to...would you recommend? Why?
- Do you believe....?
- Are you aperson? Why?
- How would you feel if....
- How effective are....?
- What do you think about....?

Group activities help to develop cooperation and leadership skills. We are all responsible for this activity.

TEACHER

Assigns various group projects, from simple to complex, based on the nature of individual classes, and other factors, such as time constraints and curriculum requirements.

Gives group parameters for determining goals, setting up timeline, and setting up checkpoints for teacher evaluation of progress.

Lets group know that each member will be evaluated on participation and overall contribution to group project.

Plans with the librarian for group or individual instruction in a particular information tool or skill that students will need to accomplish assigned group tasks.

LIBRARIAN

Helps classes and individual students to use the indexing features in tools such as INFOTRAC WEB to help students to see related subject headings. This helps them to determine where there are gaps to fill. Classes also use encyclopedia indexes to get an overview of topics as needed. This helps students to allocate tasks to individual members of the group.

Provides individual students with "HOW TO" information for ways in which the student might want to get or show information. Examples: How to set up a questionnaire, How to conduct an interview, How to cite electronic sources, How to put the information into a chart format, etc.

STUDENTS AS GROUP CONTRIBUTORS

- Work together to plan a project
- Decide together what information is needed
- Respect ideas of others
- Include different points of view
- Offer useful information to the
- Clearly communicate ideas
- Help evaluate the group project

COMPUTER TECHNOLOGY SPECIALISTS AND TELEVISION MEDIA SPECIALISTS:

Depending on the nature of the class and the requirements of the course, the computer specialist shows students how to use project planning software.

The computer specialist also shows the class how to use PowerPoint to present the project. This would include using the Outline Mode, and Table of Contents features, and the Drawing features to draw a flowchart to track progress. Television Media Specialists videotape the final presentation, and help students convert their PowerPoint presentations, charts, etc. to video for sharing over Cable television if desired.

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We all share responsibility for helping our students to become responsible information users.

SCHOOL ADMINISTRATION

Has a written copyright policy. Encourages teachers at all grade levels to require students to credit sources.

TEACHER

Makes certain classes know how to take notes, and/or extract relevant information from sources instead of merely copying and pasting information without giving proper credit for the ideas and words of others.

Makes certain classes know how to cite information in a bibliography.

STUDENTS AS RESPONSIBLE INFORMATION USERS

- Don't copy information
- Give credit to sources
- Understand others' rights to choose their own reading material Colorado Dept. of Education 6/96

LIBRARIAN

Helps individual students to determine which information might be useful, based on the assignment sheet provided by the teacher.

Helps individual students to locate documentation for citing information in a bibliography.

Helps individual students with setting up their bibliography, etc.

COMPUTER SPECIALIST

Shows classes how to use word processing programs to extract relevant information from downloaded files (highlighting or changing color of relevant text) before extracting this information for a report.

Shows classes how to insert headers and footers for the research projects or other product the student is preparing. Helps students to set up format for typing the bibliography.