



## The Texas Course Redesign Learning Object Repository: Research and Development for a Production System

# THECB Learning Object Repository Metadata Application Profile

Prepared for

**The Texas Higher Education Coordinating Board**

by

**The Texas Course Redesign Repository Team**

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# THECB Learning Object Repository Metadata Application Profile

## 1. Introduction

The purpose of this document is to describe THECB Learning Object Repository (LOR) Metadata Application Profile. The THECB LOR Metadata Application Profile is primarily based on Dublin Core (DC) Metadata Element Set. Additional elements were drawn from DC Education Application Profile, IEEE Learning Object Metadata, GEM Metadata set, and D-Space supplied metadata set.

This document is adapted from the DC Education Application Profile Working Draft. The DC Education Application Profile is available at:

[http://dublincore.org/educationwiki/DC\\_2dEducation\\_20Application\\_20Profile](http://dublincore.org/educationwiki/DC_2dEducation_20Application_20Profile)

## 2. Namespaces and Format of Entries

### 2.1 Namespaces

THECB LOR Application Profile has several namespaces:

- DCMI Metadata Terms <http://dublincore.org/documents/dcmi-terms/>
- IEEE Learning Object Metadata (LOM)  
[http://ltsc.ieee.org/wg12/files/LOM\\_1484\\_12\\_1\\_v1\\_Final\\_Draft.pdf](http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf)
- DSpace Federation Metadata <http://dspace.org/technology/metadata.html>
- DC-Educational Application Profile  
[http://dublincore.org/educationwiki/DC\\_2dEducation\\_20Application\\_20Profile](http://dublincore.org/educationwiki/DC_2dEducation_20Application_20Profile)
- GEM 2.0: Application Profiles  
<http://www.thegateway.org/about/documentation/ApplicationProfiles-9-8-04/>
- THECB LOR Locally Defined Elements

### 2.2 Format of Entries

This Application Profile is presented following the "[CEN CWA 14855: Dublin Core Application Profiles Guidelines](#)" produced by the [CEN MMI-DC Workshop](#). Some fields and definitions have been modified to fit needs of THECB LOR Application Profile.

Name of Term	A unique token assigned to the term.
Term URI	A Uniform Resource Identifier used to identify the term.
Label	A human-readable label assigned to the term.
Defined By	An identifier of a namespace, pointer to a schema, or bibliographic reference for a document within which the term is defined.
Source Definition	The definition of the term in the namespace in which the term was originated.
THECB LOR Metadata Application Profile Definition	THECB LOR Metadata Application Profile definition of the term, with appropriate changes in semantics.
Source Comments	Comments on the term from the namespace in which the term originated.
THECB LOR Application Profile	THECB LOR Metadata Application Profile comments about the term.

Comments	
Type of term	The grammatical category of the term (e.g. "Element", "Element Refinement", or "Encoding Scheme").
Refines	The described term semantically refines the referenced term. A refinement makes the meaning of the element narrower or more specific. It will share the meaning of the unrefined element but with a more restricted scope.
Refined By	The described term is semantically refined by the referenced term.
Has Encoding Scheme	The described term, an encoding scheme, qualifies the referenced term. Using an encoding scheme will aid in the interpretation of an element value. These schemes include controlled vocabularies and formal notations or parsing rules. A value expressed using an encoding scheme will thus be a token selected from a controlled vocabulary (e.g., a term from a classification system or set of subject headings) or a string formatted in accordance with a formal notation (e.g., "2000-01-01" as the standard expression of a date). If an encoding scheme is not understood by a client or agent, the value may still be useful to a human reader.
Obligation	<p>Indicates whether the element is required to always or sometimes be present.</p> <p>In this application profile the obligation can be:</p> <ul style="list-style-type: none"> <li>• mandatory (M),</li> <li>• mandatory if applicable (MA),</li> <li>• strongly recommended (R)</li> <li>• optional (O)</li> <li>• system-supplied (SS)</li> <li>• not applicable (N/A)</li> </ul> <p>Mandatory ensures that some of the elements are always supported and mandatory if applicable means that this element must be supported if the information is available. An element with a mandatory obligation must have a value. The strongly recommended and the optional elements should be filled with a value if the information is appropriate to the given resource but if not, they may be omitted.</p>
Occurrence	<p>Indicates any limit to the repeatability of the element. For THECB LOR Metadata Application Profile categories below are used:</p> <ul style="list-style-type: none"> <li>• repeatable (R)</li> <li>• not repeatable (NR)</li> <li>• not applicable (N/A)</li> </ul>
Example	A section of an operating record for the element may be included here

### 3. THECB Learning Object Repository Metadata Application Profile

#### 3.1 Elements and Refinements in Collections (except IMS content package)

Name of Term	dc.audience.educationlevel
Term URI	<a href="http://purl.org/dc/terms/educationLevel">http://purl.org/dc/terms/educationLevel</a>
Label	Intended Educational Audience
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	A general statement describing the education or training context. Alternatively, a more specific statement of the location of the audience in terms of its progression through an education or training context.
THECB LOR Application Profile Definition	
Source Comments	Recommended best practice is to use a controlled vocabulary
THECB LOR Application Profile Comments	
Type of term	Element-refinement
Refines	audience
Refined By	
Has Encoding Scheme	NSDLEdLvl
Obligation	O
Occurrence	NR
Example	Graduate
Name of Term	dc.contributor.affiliation
Term URI	<a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a>
Label	Author's Affiliation
Defined By	Locally defined for this application
Source Definition	
THECB LOR Application Profile Definition	Author's affiliation
Source Comments	
THECB LOR Application Profile Comments	An organization that author has affiliations with
Type of term	Element-refinement

Refines	contributor
Refined By	
Has Encoding Scheme	
Obligation	O
Occurrence	NR
Example	University of North Texas

Name of Term	dc.contributor.author
Term URI	<a href="http://purl.org/dc/elements/1.1/contributor">http://purl.org/dc/elements/1.1/contributor</a>
Label	Authors
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	
THECB LOR Application Profile Definition	An entity primarily responsible for making the content of the resource.
Source Comments	
THECB LOR Application Profile Comments	Typically, the name of an author is used to indicate the entity.
Type of term	Element-refinement
Refines	contributor
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	R
Example	Smith, Jane

Name of Term	dc.contributor.other
Term URI	<a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a>
Label	Other Contributors
Defined By	Locally defined for this application
Source Definition	
THECB LOR Application Profile Definition	An entity responsible for making significant contribution to the content of the resource
Source Comments	
THECB LOR	An entity could be organization or service. The name of contributing party

Application Profile Comments	should be used to indicate the entity.
Type of term	Element-refinement
Refines	Contributor
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	R
Example	Smith, Amy

Name of Term	dc.date.created
Term URI	<a href="http://purl.org/dc/terms/created">http://purl.org/dc/terms/created</a>
Label	Date Created
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	
THECB LOR Application Profile Definition	Describe the year when a course is created.
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element refinement
Refines	date
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	NR
Example	2007

Name of Term	dc.date.accessioned
Term URI	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Label	Date Accessioned
Defined By	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Source Definition	Date that the resource accessioned into the system.
THECB LOR Application Profile Definition	
Source Comments	
THECB LOR Application Profile Comments	
Type of term	Element-refinement



Refines	date
Refined By	
Has Encoding Scheme	
Obligation	SS
Occurrence	N/A
Example	

Name of Term	dc.date.available
Term URI	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Label	Date Available
Defined By	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Source Definition	Date or date range item became available to the public
THECB LOR Application Profile Definition	Date that resource was made publicly available in the THECB LOR
Source Comments	
THECB LOR Application Profile Comments	
Type of term	Element-refinement
Refines	date
Refined By	
Has Encoding Scheme	
Obligation	SS
Occurrence	N/A
Example	

Name of Term	dc.date.issued
Term URI	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Label	Date Published
Defined By	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Source Definition	Date of formal issuance (e.g., publication) of the resource.
THECB LOR Application Profile Definition	
Source Comments	Date of publication or distribution.
THECB LOR	This occurs when the user clicks on the checkbox for item previously published

Application Profile Comments	
Type of term	Element-refinement
Refines	date
Refined By	
Has Encoding Scheme	
Obligation	M
Occurrence	NR
Example	2008 June (select the year and Month and leave out the day)

Name of Term	dc.description.abstract
Term URI	<a href="http://purl.org/dc/terms/abstract">http://purl.org/dc/terms/abstract</a>
Label	Summary
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	An account of the content of the resource
THECB LOR Application Profile Definition	
Source Comments	
THECB LOR Application Profile Comments	Summary of the resources content, including geographic and temporal coverage of the resources (if applicable)
Type of term	element-refinement
Refines	description
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	NR
Example	

Name of Term	dc.description.tableofcontents
Term URI	<a href="http://purl.org/dc/terms/tableOfContents">http://purl.org/dc/terms/tableOfContents</a>
Label	Learning Object's Contents
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	A list of subunits of the content of the resource.
THECB LOR Application Profile	

Definition	
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element-refinement
Refines	description
Refined By	
Has Encoding Scheme	
Obligation	O
Occurrence	NR
Example	<p>Lessons' Topic:</p> <ol style="list-style-type: none"> <li>1. The Americas Before Columbus</li> <li>2. How did the First People Come to the Americas?</li> <li>3. Central and South American Natives</li> </ol>

Name of Term	dc.format
Term URI	<a href="http://purl.org/dc/elements/1.1/format">http://purl.org/dc/elements/1.1/format</a>
Label	Media Format
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	The physical or digital manifestation of the resource.
THECB LOR Application Profile Definition	The media-type of the resource.
Source Comments	Typically, Format may include the media-type or dimensions of the resource. Recommended best practice is to select a value from a controlled vocabulary (for example, the list of Internet Media Types [MIME] defining computer media formats).
THECB LOR Application Profile Comments	
Type of term	element
Refines	
Refined By	
Has Encoding Scheme	THECB LOR Media Format Terms
Obligation	O
Occurrence	NR
Example	Audio

Name of Term	dc.format.extent
Term URI	<a href="http://purl.org/dc/terms/extent">http://purl.org/dc/terms/extent</a>
Label	Extent
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	The size or duration of the resource.
THECB LOR Application Profile Definition	
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element-refinement
Refines	format
Refined By	
Has Encoding Scheme	
Obligation	SS
Occurrence	N/A
Example	325Kb

Name of Term	dc.format.mimetype
Term URI	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Label	Format
Defined By	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Source Definition	The physical or digital manifestation of the resource.
THECB LOR Application Profile Definition	The material or physical carrier of the resource.
Source Comments	Registered MIME type identifiers
THECB LOR Application Profile Comments	Registered MIME type identifiers are used for this element
Type of term	Element refinement
Refines	format
Refined By	
Has Encoding Scheme	IMT

Obligation	SS
Occurrence	N/A
Example	

Name of Term	dc.identifier.tccn
Term URI	<a href="http://purl.org/dc/terms/identifier">http://purl.org/dc/terms/identifier</a>
Label	Texas Common Course Number
Defined By	Locally defined for this application
Source Definition	
THECB LOR Application Profile Definition	Describe the Texas common course number
Source Comments	
THECB LOR Application Profile Comments	Locally defined
Type of term	element refinement
Refines	identifier
Refined By	
Has Encoding Scheme	
Obligation	M
Occurrence	NR
Example	

Name of Term	dc.identifier.uri
Term URI	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Label	Identifier URI
Defined By	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Source Definition	Uniform Resource Identifier.
THECB LOR Application Profile Definition	This identifier should be in the form of a URI that points to the location of the resource described by the metadata record and is applicable for resources residing in the THECB LOR repository.
Source Comments	<a href="http://purl.org/dc/elements/1.1/identifier">http://purl.org/dc/elements/1.1/identifier</a>
THECB LOR Application Profile Comments	THECB LOR adopts dspace default metadata dc.identifier.uri and it is used as dc.identifier .
Type of term	element refinement
Refines	Identifier
Refined By	
Has Encoding Scheme	URI
Obligation	SS
Occurrence	N/A
Example	

Name of Term	dc.instructionalmethod
Term URI	<a href="http://purl.org/dc/terms/instructionalMethod">http://purl.org/dc/terms/instructionalMethod</a>
Label	Instructional Method
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	A process, used to engender knowledge, attitudes and skills, that the resource

	is designed to support.
THECB LOR Application Profile Definition	
Source Comments	Instructional Method will typically include ways of presenting instructional materials or conducting instructional activities, patterns of learner-to-learner and learner-to-instructor interactions, and mechanisms by which group and individual levels of learning are measured. Instructional methods include all aspects of the instruction and learning processes from planning and implementation through evaluation and feedback.
THECB LOR Application Profile Comments	
Type of term	element
Refines	
Refined By	
Has Encoding Scheme	THECB LOR Instructional Method Terms
Obligation	O
Occurrence	R
Example	Case Study

Name of Term	dc.language.iso
Term URI	<a href="http://purl.org/dc/elements/1.1/language">http://purl.org/dc/elements/1.1/language</a>
Label	Language
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	A language of the resource.
THECB LOR Application Profile Definition	
Source Comments	Recommended best practice is to use a controlled vocabulary such as RFC 3066 [RFC3066].
THECB LOR Application Profile Comments	
Type of term	Element refinement
Refines	
Refined By	
Has Encoding Scheme	THECB LOR Language Terms
Obligation	MA

Occurrence	R
Example	English

Name of Term	dc.provenance
Term URI	<a href="http://purl.org/dc/terms/provenance">http://purl.org/dc/terms/provenance</a>
Label	Creation and Ownership Information
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	A statement of any changes in ownership and custody of the resource since its creation that is significant for its authenticity, integrity and interpretation.
THECB LOR Application Profile Definition	
Source Comments	The statement may include a description of any changes successive custodians made to the resource.
THECB LOR Application Profile Comments	
Type of term	element
Refines	
Refined By	
Has Encoding Scheme	
Obligation	O
Occurrence	NR
Example	

Name of Term	dc.publisher
Term URI	<a href="http://purl.org/dc/elements/1.1/publisher">http://purl.org/dc/elements/1.1/publisher</a>
Label	Publisher
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	An entity responsible for making the resource available
THECB LOR Application Profile Definition	
Source Comments	Examples of a Publisher include a person, an organization, or a service. Typically, the name of a Publisher should be used to indicate the entity.
THECB LOR Application Profile Comments	This occurs when the user clicks on the checkbox for item previously published. Use the default value: Texas Higher Education Coordinating Board
Type of term	Element
Refines	
Refined By	
Has Encoding Scheme	
Obligation	MA

Occurrence	R
Example	NISO Press

Name of Term	dc.relation.haspart
Term URI	<a href="http://purl.org/dc/terms/hasPart">http://purl.org/dc/terms/hasPart</a>
Label	Has Component Parts
Defined By	
Source Definition	
THECB LOR Application Profile Definition	Describe the relationship of a parent LO to a child LO in the same course. The data value format is Title:url
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element refinement
Refines	relation
Refined By	
Has Encoding Scheme	
Obligation	O
Occurrence	NR
Example	Southern Society: <a href="http://hdl.handle.net/2188/714">http://hdl.handle.net/2188/714</a>

Name of Term	dc.relation.ispartof
Term URI	<a href="http://purl.org/dc/terms/isPartOf">http://purl.org/dc/terms/isPartOf</a>
Label	Is a Component Part of
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	
THECB LOR Application Profile Definition	Describe the relationship of a child LO to a parent LO in the same course. The data value format is Title:url
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element-refinement
Refines	relation
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	NR
Example	Unit 4: <a href="http://hdl.handle.net/2188/1149">http://hdl.handle.net/2188/1149</a>

Name of Term	dc.relation.uri
--------------	-----------------



Term URI	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Label	IMS Content Package
Defined By	
Source Definition	
THECB LOR Application Profile Definition	A reference to a related resource. The data value is a url address
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element refinement
Refines	relation
Refined By	
Has Encoding Scheme	URI
Obligation	MA
Occurrence	NR
Example	<a href="http://hdl.handle.net/2188/1226">http://hdl.handle.net/2188/1226</a>

Name of Term	dc.rights
Term URI	<a href="http://purl.org/dc/elements/1.1/rights">http://purl.org/dc/elements/1.1/rights</a>
Label	Intellectual Property Rights
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	Information about rights held in and over the resource.
THECB LOR Application Profile Definition	
Source Comments	Typically, rights information includes a statement about various property rights associated with the resource, including intellectual property rights.
THECB LOR Application Profile Comments	
Type of term	element
Refines	
Refined By	accessRights license rightHolder
Has Encoding Scheme	
Obligation	MA
Occurrence	NR
Example	

Name of Term	dc.rights.accessrights
Term URI	<a href="http://purl.org/dc/terms/accessRights">http://purl.org/dc/terms/accessRights</a>

Label	Access and Use Rights
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	Information about who can access the resource or an indication of its security status.
THECB LOR Application Profile Definition	
Source Comments	Access Rights may include information regarding access or restrictions based on privacy, security or other regulations.
THECB LOR Application Profile Comments	
Type of term	element-refinement
Refines	rights
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	NR
Example	

Name of Term	dc.rights.license
Term URI	<a href="http://purl.org/dc/terms/license">http://purl.org/dc/terms/license</a>
Label	Access and Use License
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	A legal document giving official permission to do something with the resource.
THECB LOR Application Profile Definition	
Source Comments	Recommended best practice is to identify the license using a URI. Examples of such licenses can be found at <a href="http://creativecommons.org/licenses/">http://creativecommons.org/licenses/</a> .
THECB LOR Application Profile Comments	
Type of term	element-refinement
Refines	rights
Refined By	
Has Encoding Scheme	
Obligation	MA

Occurrence	NR
Example	

Name of Term	dc.rights.rightsholder
Term URI	<a href="http://purl.org/dc/terms/rightsHolder">http://purl.org/dc/terms/rightsHolder</a>
Label	Rights Holder
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	A person or organization owning or managing rights over the resource.
THECB LOR Application Profile Definition	
Source Comments	Recommended best practice is to use the URI or name of the Rights Holder to indicate the entity.
THECB LOR Application Profile Comments	
Type of term	element-refinement
Refines	rights
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	R
Example	

Name of Term	dc.subject
Term URI	<a href="http://purl.org/dc/elements/1.1/subject">http://purl.org/dc/elements/1.1/subject</a>
Label	Subjects
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	The topic of the resource. Controlled subject term(s) chosen from the THECB LOR Subject Terms.
THECB LOR Application Profile Definition	
Source Comments	Typically, the topic will be represented using keywords, key phrases, or classification codes. Recommended best practice is to use a controlled vocabulary. To describe the spatial or temporal topic of the resource, use the Coverage element.
THECB LOR Application Profile	

Comments	
Type of term	Element
Refines	
Refined By	
Has Encoding Scheme	THECB LOR History Subject Terms
Obligation	MA
Occurrence	R
Example	Hopewell

Name of Term	dc.title
Term URI	<a href="http://purl.org/dc/elements/1.1/title">http://purl.org/dc/elements/1.1/title</a>
Label	Title
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	A name given to the resource
THECB LOR Application Profile Definition	
Source Comments	Typically, a Title will be a name by which the resource is formally known.
THECB LOR Application Profile Comments	
Type of term	Element
Refines	
Refined By	alternative
Has Encoding Scheme	
Obligation	M
Occurrence	NR
Example	Central and South American Indians

Name of Term	dc.title.alternative
Term URI	<a href="http://purl.org/dc/terms/alternative">http://purl.org/dc/terms/alternative</a>
Label	Other Title
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	Any form of the title used as a substitute or alternative to the formal title of the resource.
THECB LOR Application Profile	

Definition	
Source Comments	This qualifier can include Title abbreviations as well as translations.
THECB LOR Application Profile Comments	Only apply to the LOs which have multiple titles.
Type of term	element-refinement
Refines	title
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	R
Example	Creating Web Pages with HTML

Name of Term	dc.tilte.course
Term URI	<a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a>
Label	Course Name
Defined By	Locally defined for this application
Source Definition	
THECB LOR Application Profile Definition	Describe the name of the course
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element refinement
Refines	title
Refined By	
Has Encoding Scheme	
Obligation	M
Occurrence	NR
Example	U.S. History I

Name of Term	dc.type
Term URI	<a href="http://purl.org/dc/elements/1.1/type">http://purl.org/dc/elements/1.1/type</a>
Label	Learning Object Type
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	The nature or genre of the content of the resource
THECB LOR Application Profile Definition	
Source Comments	Recommended best practice is to use a controlled vocabulary such as the DCMI Type Vocabulary [DCMITYPE]. To describe the file format, physical medium, or dimensions of the resource, use the Format element.

THECB LOR Application Profile Comments	
Type of term	element
Refines	
Refined By	
Has Encoding Scheme	NSDLResType
Obligation	M
Occurrence	R
Example	Lesson

Name of Term	gem.cataloging.individualcataloger
Term URI	<a href="http://purl.org/gem/qualifiers/IndividualCataloger">http://purl.org/gem/qualifiers/IndividualCataloger</a>
Label	Metadata Cataloger
Defined By	<a href="http://purl.org/gem/qualifiers/">http://purl.org/gem/qualifiers/</a>
Source Definition	The name of an individual responsible for creation of the description (metadata record) of a resource.
THECB LOR Application Profile Definition	
Source Comments	The «individualCataloger» element is intended to contain information identifying the individual who did the cataloging. The «individualCataloger» element should not be used to record information about the cataloging agency.
THECB LOR Application Profile Comments	Personal names should be listed given name first, followed by surname or family name.
Type of term	Element-refinement
Refines	Cataloging
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	R
Example	Kelly McMichael

Name of Term	gem.cataloging.individualcatalogerdomain
Term URI	<a href="http://purl.org/gem/qualifiers/IndividualCataloger">http://purl.org/gem/qualifiers/IndividualCataloger</a>

Label	Domain Cataloger
Defined By	Locally defined for this application
Source Definition	
THECB LOR Application Profile Definition	The name of an individual responsible for creation of the metadata record.
Source Comments	
THECB LOR Application Profile Comments	Locally Defined GEM Element Refinement. The element is intended to contain information identifying the individual who did the cataloging of some domain metadata, for example the subjects, summary, your name is the source.
Type of term	Element-refinement
Refines	Cataloging
Refined By	
Has Encoding Scheme	
Obligation	MA
Occurrence	R
Example	Kelly McMichael

Name of Term	lom.classification.taxon
Term URI	
Label	Discipline and Sub-Discipline
Defined By	<a href="http://tsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://tsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
Source Definition	A particular term within a taxonomy. A taxon is a node that has a defined label or term. A taxon may also have an alphanumeric designation or identifier for standardized reference. Either or both the label and the entry may be used to designate a particular taxon.
THECB LOR Application Profile Definition	
Source Comments	An ordered list of taxons creates a taxonomic path, i.e., "taxonomic stairway": this is a path from a more general to more specific entry in a classification.
THECB LOR Application Profile Comments	
Type of term	Element-refinement
Refines	classification
Refined By	
Has Encoding Scheme	
Obligation	O

Occurrence	R
Example	History

Name of Term	lom.educational.difficulty
Term URI	
Label	Difficulty Level
Defined By	<a href="http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
Source Definition	How hard it is to work with or through this learning object for the typical intended target audience.
THECB LOR Application Profile Definition	
Source Comments	
THECB LOR Application Profile Comments	
Type of term	
Refines	educational
Refined By	
Has Encoding Scheme	IEEE LOM Difficulty Level Vocabulary
Obligation	O
Occurrence	NR
Example	easy

Name of Term	lom.educational.interactivitylevel
Term URI	
Label	Interactivity Level
Defined By	<a href="http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
Source Definition	The degree of interactivity characterizing this learning object. Interactivity in this context refers to the degree to which the learner can influence the aspect or behavior of the learning object.
THECB LOR Application Profile Definition	
Source Comments	
THECB LOR Application Profile Comments	
Type of term	Element-refinement




Refines	educational
Refined By	
Has Encoding Scheme	IEEE LOM Interactivity Level Vocabulary
Obligation	O
Occurrence	NR
Example	Low

Name of Term	lom.educational.interactivitytype
Term URI	
Label	Interactivity Type
Defined By	<a href="http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
Source Definition	Predominant mode of learning supported by this learning object.
THECB LOR Application Profile Definition	
Source Comments	"Active" learning (e.g., learning by doing) is supported by content that directly induces productive action by the learner. An active learning object prompts the learner for semantically meaningful input or for some other kind of productive action or decision, not necessarily performed within the learning object's framework. Active documents include simulations, questionnaires, and exercises. "Expositive" learning (e.g., passive learning) occurs when the learner's job mainly consists of absorbing the content exposed to him (generally through text, images or sound). An expositive learning object displays information but does not prompt the learner for any semantically meaningful input. Expositive documents include essays, video clips, all kinds of graphical material, and hypertext documents. When a learning object blends the active and expositive interactivity types, then its interactivity type is "mixed".
THECB LOR Application Profile Comments	In "Active" mode, learners learn by doing, and it is supported by content that directly induces productive action by the learner. An active learning object prompts the learner for semantically meaningful input or for some other kind of productive action or decision, not necessarily performed within the learning object's framework. Active documents include simulations, questionnaires, and exercises. In "Expositive" mode, learning (e.g., passive learning) occurs when the learner's job mainly consists of absorbing the content exposed to him (generally through text, images or sound). An expositive learning object displays information but does not prompt the learner for any semantically meaningful input. Expositive documents include essays, video clips, all kinds of graphical material, and hypertext documents. When a learning object blends the active and expositive interactivity types, then its interactivity type is "mixed".
Type of term	Element-refinement
Refines	educational
Refined By	
Has Encoding Scheme	IEEE LOM Interactivity Type Vocabulary

Obligation	O
Occurrence	NR
Example	mixed

Name of Term	lom.educational.typicallearningtime
Term URI	
Label	Typical Learning Time
Defined By	<a href="http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
Source Definition	Approximate or typical time it takes to work with or through this learning object for the typical intended target audience.
THECB LOR Application Profile Definition	
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element-refinement
Refines	educational
Refined By	
Has Encoding Scheme	THECB LOR Typical Learning Time Terms
Obligation	O
Occurrence	NR
Example	10 hours

Name of Term	lom.general.aggregationlevel
Term URI	
Label	Size of Object
Defined By	<a href="http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
Source Definition	
THECB LOR Application Profile Definition	Describe the levels of an LO
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element
Refines	General
Refined By	
Has Encoding Scheme	THECB LOR Size of Object Terms
Obligation	O
Occurrence	NR

Example	<p>Level 1, Level 2, Level 3</p> <p>Graphically, the level is presented with the following icon. In this example, the icon represents Level 3 in the U.S. History course</p> 
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Name of Term	lom.technical.requirement
Term URI	
Label	Technical Requirements
Defined By	<a href="http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
Source Definition	The technical capabilities necessary for using this learning object.
THECB LOR Application Profile Definition	
Source Comments	
THECB LOR Application Profile Comments	
Type of term	element-refinement
Refines	technical
Refined By	
Has Encoding Scheme	THECB LOR Requirement Terms
Obligation	O
Occurrence	R
Example	flash

### 3.2 Elements and Refinements in IMS content package

The following metadata elements are used for the IMS content packages:

Name of Term	dc.description.uri
Term URI	<a href="http://dspace.org/technology/metadata.html">http://dspace.org/technology/metadata.html</a>
Label	Learning Object Description
Defined By	
Source Definition	
THECB LOR Application Profile Definition	A reference to the related LO which is in the content package. The data vale is the URL address of the related LO.
Source Comments	
THECB LOR Application Profile Comments	

Type of term	element refinement
Refines	description
Refined By	
Has Encoding Scheme	URI
Obligation	MA
Occurrence	NR
Example	<a href="http://hdl.handle.net/2188/707">http://hdl.handle.net/2188/707</a>

Name of Term	dc.title
Term URI	<a href="http://purl.org/dc/elements/1.1/title">http://purl.org/dc/elements/1.1/title</a>
Label	Title
Defined By	<a href="http://dublincore.org/documents/dcmi-terms/">http://dublincore.org/documents/dcmi-terms/</a>
Source Definition	A name given to the resource
THECB LOR Application Profile Definition	The title of the IMS content packages name.
Source Comments	
THECB LOR Application Profile Comments	
Type of term	Title
Refines	
Refined By	
Has Encoding Scheme	
Obligation	M
Occurrence	NR
Example	Unit 1; Unit 1, Lesson 2, Topic 1

### 3.3 Encoding Schemes

#### 3.3.1 Registered Encoding Schemes

Name of Term	IMT
Term URI	<a href="http://purl.org/dc/terms/IMT">http://purl.org/dc/terms/IMT</a>
Label	IMT
Defined By	<a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/</a>
Definition	The Internet media type of the resource.
Comments	
See Also	<a href="http://www.isi.edu/innotes/iana/assignments/media-types/media-types/">http://www.isi.edu/innotes/iana/assignments/media-types/media-types/</a>
Type of term	encoding scheme
Encoding Scheme For	format

Name of Term	NSDLResType
Term URI	<a href="http://metadataregistry.org/NSDLResType">http://metadataregistry.org/NSDLResType</a>
Label	NSDL Learning Resource Type
Defined By	<a href="http://metadataregistry.org/vocabulary/show/id/11">http://metadataregistry.org/vocabulary/show/id/11</a>
Definition	A list of types used to categorize the nature or genre of the content of the resource.
Comments	
See Also	<a href="http://projects.ischool.washington.edu/sasutton/dcmi/DC-EdAP-7-18-06.html#NSDLResType">http://projects.ischool.washington.edu/sasutton/dcmi/DC-EdAP-7-18-06.html#NSDLResType</a>

<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	type

<b>Name of Term</b>	IEEE LOM Interactivity Type Vocabulary
<b>Term URI</b>	
<b>Label</b>	IEEE LOM Interactivity Type Vocabulary
<b>Defined By</b>	<a href="http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
<b>Definition</b>	A list of terms to indicate the interactivity type of the resource
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	interactivityType

<b>Name of Term</b>	IEEE LOM Interactivity Level Vocabulary
<b>Term URI</b>	
<b>Label</b>	IEEE LOM Interactivity Level Vocabulary
<b>Defined By</b>	<a href="http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
<b>Definition</b>	A list of terms to indicate the interactivity level of the resource
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	interactivityLevel

<b>Name of Term</b>	IEEE LOM Difficulty Level Vocabulary
<b>Term URI</b>	
<b>Label</b>	IEEE LOM Difficulty Level Vocabulary
<b>Defined By</b>	<a href="http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf">http://ltsc.ieee.org/wg12/files/LOM_1484_12_1_v1_Final_Draft.pdf</a>
<b>Definition</b>	A list of terms to indicate the difficulty level of the resource
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	difficuty

<b>Name of Term</b>	NSDLEdLvl
<b>Term URI</b>	<a href="http://metadataregistry.org/uri/NSDLEdLvl">http://metadataregistry.org/uri/NSDLEdLvl</a>
<b>Label</b>	NSDL Education Level Vocabulary
<b>Defined By</b>	<a href="http://metadataregistry.org/uri">http://metadataregistry.org/uri</a>
<b>Definition</b>	Terms representing levels of formal education relevant in most of the United States.
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	educationLevel

<b>Name of Term</b>	W3CDTF
<b>Term URI</b>	<a href="http://purl.org/dc/terms/W3CDTF">http://purl.org/dc/terms/W3CDTF</a>
<b>Label</b>	W3C-DTF
<b>Defined By</b>	<a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/</a>
<b>Definition</b>	W3C encoding rules for dates and times – a profile based on ISO 8601.
<b>Comments</b>	
<b>See Also</b>	<a href="http://www.w3.org/TR/NOTE-datetime">http://www.w3.org/TR/NOTE-datetime</a>
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	dateAccepted

<b>Name of Term</b>	URI
<b>Term URI</b>	<a href="http://purl.org/dc/terms/URI">http://purl.org/dc/terms/URI</a>
<b>Label</b>	URI
<b>Defined By</b>	<a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/</a>
<b>Definition</b>	A URI Uniform Resource Identifier
<b>Comments</b>	
<b>See Also</b>	<a href="http://www.ietf.org/rfc/rfc2396.txt">http://www.ietf.org/rfc/rfc2396.txt</a>
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	identifierURI

### 3.3.2 Unregistered Encoding Schemas

<b>Name of Term</b>	THECB LOR History Subject Terms
<b>Term URI</b>	
<b>Label</b>	THECB LOR Subject Terms
<b>Defined By</b>	
<b>Definition</b>	A list of subject terms to be used in the THECB LOR.
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	subject

<b>Name of Term</b>	THECB LOR Instructional Method Terms
<b>Term URI</b>	
<b>Label</b>	THECB LOR Instructional Method Terms
<b>Defined By</b>	
<b>Definition</b>	A list of instructional methods terms to be used in the THECB LOR.
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	instructionalMethod

<b>Name of Term</b>	THECB LOR Requirement Terms
<b>Term URI</b>	
<b>Label</b>	THECB LOR Requirement Terms
<b>Defined By</b>	
<b>Definition</b>	A list of requirement terms to be used in the THECB LOR.
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	requirement

<b>Name of Term</b>	THECB LOR Language Terms
<b>Term URI</b>	
<b>Label</b>	THECB LOR Language Terms
<b>Defined By</b>	
<b>Definition</b>	A list of language terms to be used in the THECB LOR.
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	Language

<b>Name of Term</b>	THECB LOR Media Format Terms
<b>Term URI</b>	

<b>Label</b>	THECB LOR Media Format Terms
<b>Defined By</b>	
<b>Definition</b>	A list of media format terms to be used in the THECB LOR.
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	Format

<b>Name of Term</b>	THECB LOR Typical Learning Time Terms
<b>Term URI</b>	
<b>Label</b>	THECB LOR Typical Learning Time Terms
<b>Defined By</b>	
<b>Definition</b>	A list of terms to be used in the THECB LOR for Typical Learning Time Element.
<b>Comments</b>	
<b>See Also</b>	
<b>Type of term</b>	Encoding Scheme
<b>Encoding Scheme For</b>	Typical Learning Time

## 4. Encoding Scheme Values

### 4.1 THECB LOR History Subject Terms

Abolitionism	Biological Exchange	Declaration of the Rights and Grievances of the Colonies
Act for the Impartial	Boston Massacre	Declaratory Act
Administration of Justice	Boston Port Act	Democracy
Adams Administration	Boston Tea Party	Domestic Policy
Adams-Onis Treaty	British Colonies	Dred Scott Decision
Albany Plan	British Empire	Early American Democracy
Alien and Sedition Acts	Calvinism	East India Company
American Art	Canals	Eaton Affair
American Colonization Society	Cities	Economic Change
American Culture	Coercive Acts	Election of 1824
American Government	Colonial Government	Election of 1836
American Indians	Colonial Life	Embargo
American Literature	Common Sense	English Civil War
American Renaissance	Commonwealth v. Hunt	English Colonization
American Revolution	Conestoga Wagon	Enlightenment
American System	Connecticut Compromise	Evangelicalism
Anglican Church	Constitutional Convention	Exploration Routes
Annexation	Continental Congress	Factories
Anti-Slavery	Cotton	Federalism
Army Nursing Corps	Cotton Gin	Federalist Papers
Art	Cult of True Womanhood	First Encounters
Articles of Confederation	Currency	Force Bill
Bacon's Rebellion	Currency Act	Foreign Policy
Bank of the United States	Dartmouth College v. Woodward	Free Will
Bank War	Declaration of American Rights	French America
Battle of Fallen Timbers	Declaration of Independence	French and Indian War
Battle of New Orleans	Declaration of Sentiments	French Colonization
Battle of Saratoga	Declaration of the Causes and Necessity of Taking Up Arms	French Revolution
Bering Strait		Gender Roles
Bicameral Legislature		Gibbons v. Ogden
Bill of Rights		Glorious Revolution

Gold Rush	News	Suffolk Resolves
Government	Non-consumption	Suffrage
Hartford Convention	Agreements	Sugar Act
Immigration	Non-Intercourse Act	Tariff of 1824
Impressment	Northwest Ordinance	Tariff of 1828
Independence Day	Nullification	Tariff of 1832
Indian Removal	Olive Branch Petition	Tariff of 1833
Industrial Revolution	Pan-Indian Movement	Tariffs
Industrialization	Panic of 1819	Tarring and Feathering
Interchangeable Parts	Panic of 1837	Technology
Intolerable Acts	Philadelphia Female Anti-	Temperance
Iroquois Nation	Slavery Society	Texas Revolution
Jackson Administration	Philosophy	Textiles
Jacksonian Democracy	Pinckney's Treaty	The American Society for the
Jefferson Administration	Plantation System	Promotion of Temperance
John Q. Adams	Political Activism	The Crusades
Administration	Political Parties	The Enlightenment
Join or Die	Politics of Personality	The Liberator
Joint-stock Companies	Polk Administration	The Mayflower
Judiciary Act of 1801	Pontiac's Rebellion	The Three-Fifths Compromise
Kentucky and Virginia	Portuguese Exploration	Tobacco
Resolves	Predestination	Townshend Acts
King George's War	Prisons	Trail of Tears
King Philip's War	Proclamation Line of 1763	Transcendentalism
King William's War	Prohibitory Act	Transportation
Labor	Protestant Reformation	Treaty of Ghent
Labor Parties	Protestantism	Treaty of Guadalupe Hidalgo
Labor Unions	Puritanism	Treaty of New Echota
Land Act of 1820	Quartering Act	Treaty of Paris
Land Laws	Queen Anne's War	Two Treatises on
Liberty Trees	Railroads	Government
Louisiana Purchase	Religion	Tyler Administration
Lowell System	Religious Tolerance	U.S. Constitution
Madison Administration	Restraining Acts	U.S. Navy
Madisonian Model	Revolution of 1800	Utopian Movement
Manifest Destiny	Revolutionary War	Virginia Company
Massachusetts Government	Salem Witch Trials	Virtual Representation
Act	Scalping	Voting and Representation
Mayflower Compact	Second Bank of the United	War of 1812
McCulloch v. Maryland	States	War of Jenkins' Ear
Mental Institutions	Second Great Awakening	Washington Administration
mercantile system	Second Treatise of Civil	Webster-Ashburton Treaty
Mercantilism	Government	Westward Expansion
Mexican-American War	Seneca Falls Convention	Whiskey Rebellion
Middle Passage	Slave Trade	Women's Rights
Mississippian	Slavery	Women, Satire
Missouri Compromise	Slavery Debate	XYZ Affair
Molasses Act	Social Reform	Early Nationhood
Monroe Administration	Spanish Colonization	Era of Good Feeling
Monroe Doctrine	Specie Circular	Pre-Columbian
Moral Reform	Spoils System	Pre-Columbian America
Moral Reform Societies	Stamp Act	Renaissance
National American Woman	Stamp Act Congress	The Age of the Common Man
Suffrage Association	Star-Spangled Banner	Breed's and Bunker Hills
National Bank	Steamboats	California
Navigation Acts	Strict Constructionism	Colonial Cities



Delaware	Dr. Elizabeth Blackwell	Lucretia Mott
Florida	Dred Scott	Martin Luther
Jamestown	Easter n Woodlands People	Martin Van Buren
Lexington and Concord	Eastern Woodlands People	Mayas
Massachusetts Bay Colony	Eli Whitney	Minute Men
Middle Colonies	Elizabeth Cady Stanton	Mississippian
New Jersey	Explorers	Mogollons
New York	Federalists	Mormons
Northern Colonies	Five Civilized Tribes	Mound Builders
Old Northwest	Francisco Pizarro	Nathaniel Bacon
Old Southwest	Frederick Jackson Turner	Native Americans
Oregon Territory	Frederick Lord North	Nicholas Biddle
Pennsylvania	General Winfield Scott	Odwandiyag
Plymouth	George Grenville	Oliver Cromwell
Roanoke	George Washington	Patrick Henry
South Carolina	George Whitefield	Paul Revere
Southern Colonies	Grimke Sisters	Pilgrims
St. Augustine	Henry CLay	Pocahontas
Texas	Henry the Navigator	Pontiac
The South	Henry VIII	Quakers
Tippecanoe	Hernan Cortes	Rene-Robert Cavalier
Yorktown	Hernando De Soto	Republicans
Adam Smith	Hohokams	Robert J. Walker
African Americans	Hopewell	Roger Williams
Africans	Incas	Samuel Adams
Alexander Hamilton	Indentured Servants	Samuel de Champlain
American Indians	Jacque Cartier	Seminole
Amerigo Vespucci	James II	Shays' Rebellion
Anasazi	James K. Polk	Sieur de La Salle
Andrew Jackson	James Madison	Sir Walter Raleigh
Anne Hutchinson	James Monroe	Sojourner Truth
Anti-Federalists	John Adams	Sons of Liberty
Anti-Masonic Party	John C.Calhoun	Squanto
Antoinette Brown Blackwell	John Calvin	Stephen F. Austin
Antonio Lopez de Santa	John Dickinson	Susan B. Anthony
Anna	John Jay	Tecumseh
Aztecs	John L. O'Sullivan	Thomas Jefferson
Benjamin Franklin	John Locke	Thomas Paine
Charles Grandison Finney	John Marshall	Timothy Dwight
Charles Townshend	John Quincy Adams	Treaty Party
Cherokee	John Ross	Vikings
Chief Osceola	John Slidell	War Hawks
Christopher Columbus	John Tyler	Whigs
Daniel Shays	John White	William Henry Harrison
Daughters of Liberty	Jonathan Edwards	William Lloyd Garrison
Democratic Party	King George III	William of Orange
Democratic-Republicans	La Malinche	William Pitt
Dorothea Dix	Loyalists	Women

#### 4.2 THECB LOR Spanish Subject Terms

Command Forms	Inifinitive Verbs	Present tense ER/IR
Formal commands	Plural Verbs	Present tense Irregulars
Grammar	Present progressive tense	Preterite
Imperfect	Present Subjunctive	Preterite Tense
Infinitives	Present tense	Reflexive verbs
Informal commands	Present tense AR	Spanish

Stem changing Subjunctive Formal commands	Subjunctive Mood Tense	Verbs
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**4.3 IEEE LOM Interactivity Type Vocabulary**

Active  
Expositive  
Mixed

**4.4 IEEE LOM Interactivity Level Vocabulary**

Very low  
1=Low  
2=Medium  
3=High  
4=Very high

**4.5 IEEE LOM Difficulty Level Vocabulary**

Very easy  
Easy  
Medium  
Difficult  
Very difficult

**4.6 NSDL Learning Resource Type**

Abstract	Fiction	Problem Set
Annotation	Form	Project
Article	Forum	Reference
Artifact	Game	Remotely Sensed Imagery
Ask-an-Expert	Glossary	Report
Assessment	Illustration	Simulation
Bibliography	Instructor Guide	Study Guide
Broadcast	Lesson	Syllabus
Case Study	Map	Textbook
Clearinghouse	Music	Thesis
Course	Oral History	Tutorial
Curriculum	Periodical	Field Trip
Data Set	Photograph	Weblog
Demonstration	Portal	
Experiment	Presentation	

**4.7 THECB LOR Instructional Method Terms**

Assessment Item	Interdisciplinary
Activity Exercise	Learning Module
Case Study	Lecture Presentation
Computer-Based Tutorial Instruction	Multiple activities
Computer simulations	Multimedia instruction
Course Lecture Presentation Notes	Project-based learning
Cooperative learning	Role playing
Demonstrations	Games
Curriculum Syllabus	Simulations
Discussions	Student Success guide
Examination Test	Teaching guide
Experiential learning	Podcast
Glossary	Vodcast

Visual instruction

**4.8 NSDL Education Level Vocabulary**

Undergraduate (Lower Division)  
 Undergraduate (Upper Division)  
 Graduate

**4.9 Language Terms**

English (United States)  
 English  
 Spanish  
 German  
 French  
 Italian  
 Japanese  
 Chinese  
 Other

**4.10 THECB LOR Requirement Terms**

Flash  
 Real Player  
 Quick Time  
 Shockwave  
 Acrobat Reader  
 Windows Media Play

**4.11 List of Internet Media Types (MIME Types)**

This short list of values from the encoding scheme. The full list of values available at [http://www.w3schools.com/media/media\\_mimeref.asp](http://www.w3schools.com/media/media_mimeref.asp)

<b>MIME Type/Subtype</b>	<b>Associated File Extensions</b>
application/msword	doc, dot
application/pdf	pdf
application/vnd.ms-excel	xla, xlc, xlm, xls, xlt, xlw
application/vnd.ms-powerpoint	pot, pps, ppt
application/vnd.ms-works	wcm, wdb, wks, wps
application/x-msmediaview	m13, m14, mvb
application/x-shockwave-flash	swf
application/x-javascript	js
application/zip	zip
audio/mpeg	mp3
audio/x-pn-realaudio	ra, ram
image/gif	gif
image/jpeg	jpe, jpeg, jpg
image/tiff	tif, tiff
text/html	htm, html, stm
text/plain	bas, h, c, txt
text/richtext	rtx
text/x-vcard	vcf
video/mpeg	mp2, mpa, mpe, mpeg, mpg, mpv2
video/quicktime	mov, qt
video/x-msvideo	avi
video/x-sgi-movie	movie

#### 4.12 THECB LOR Media Format Terms

Audio  
Video  
Text  
Image  
Spreadsheet  
Webpage  
Animation

#### 4.13 THECB LOR Typical Learning Time Terms

10 hours  
2.5 hours  
20 minutes  
10 minutes  
5 minutes  
varies—see summary

#### 4.14 THECB LOR Size of Object Terms

Level 1  
Level 2  
Level 3  
Level 4  
Level 5

( Level 1 means smallest level of aggregation, e.g. raw media data or fragments;  
Level 2 refers to a collection of atoms or level 1 resources, e.g. an HTML document with some embedded pictures or a topic;  
Level 3 indicates a collection of level 2 resources, e.g. a "web" of HTML documents, with an index page that links the pages together or a lesson;  
Level 4 refers to the largest level of granularity, e.g. a unit.)

In THECB LOR the levels are visually presented.

