



**SUBJECT INDEXING OF TEXTBOOKS –  
CHALLENGES IN THE CONSTRUCTION OF A DISCOVERY SYSTEM**  
BIANCA PRAMANN; JESSICA DRECHSLER; ROBERT STRÖTGEN; ESTHER CHEN  
(GEORG ECKERT INSTITUTE FOR INTERNATIONAL TEXTBOOK RESEARCH  
BRAUNSCHWEIG)

# THE INSTITUTE



## Profile

- International centre for research on textbooks
- Mediator for parties in conflict
- Forum for international academic exchange
- Networker for teachers and experts in the field of education
- Advisor for representatives of political institutions, NGOs, publishing houses, textbook authors and teachers

# THE INSTITUTE – PRINCIPAL FOCI



- How educational media have developed historically,
- On what theoretical principals the research is based and which methods are used,
- How the effects of textbooks can be investigated empirically,
- How the impact of multilateral textbook activities can be evaluated.



# THE RESEARCH LIBRARY

## Profile

- unique national and international research library in the field of comparative textbook research
- the most comprehensive collection of international textbooks from the subjects of history, geography, politics/social studies



# THE RESEARCH LIBRARY

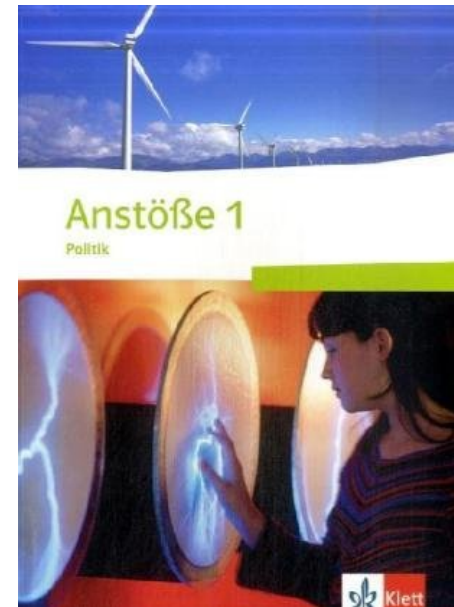
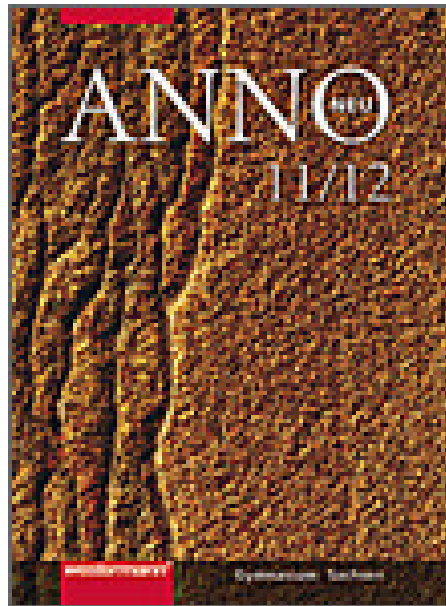
## Profile

- Collection: about 253.000 items
- Textbook Collection: 178,000 volumes
- Academic Collection: 75,000 volumes
- Curricula, primers





# TEXTBOOKS - EXAMPLES



# TEXTBOOKS - EXAMPLES



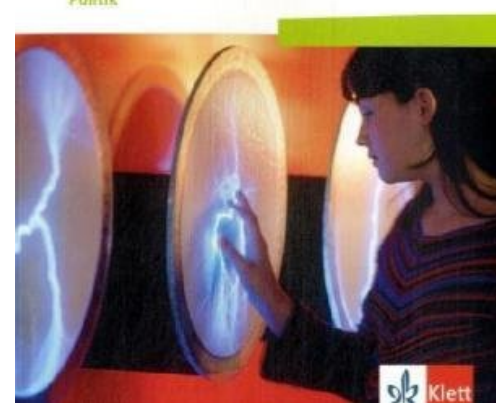
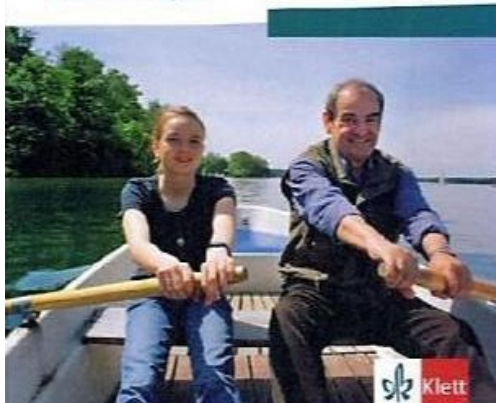
**Anstöße 11**  
Sozialkunde Bayern



**Anstöße Kursstufe 1**  
Gemeinschaftskunde Baden-Württemberg



**Anstöße 1**  
Politik



# SUBJECT INDEXING OF TEXTBOOKS

Challenges for subject indexing:

- traditional search parameters are seldom relevant
- titles of textbooks frequently do not act as distinguishing characteristics
- textbooks are typically issued in series
- it is often not immediately evident for which age group a book has been designed



# SUBJECT INDEXING OF TEXTBOOKS

Status quo of indexing:

- very few institutions comprehensively catalogue textbook content
- no suitable, existing classification system to replicate

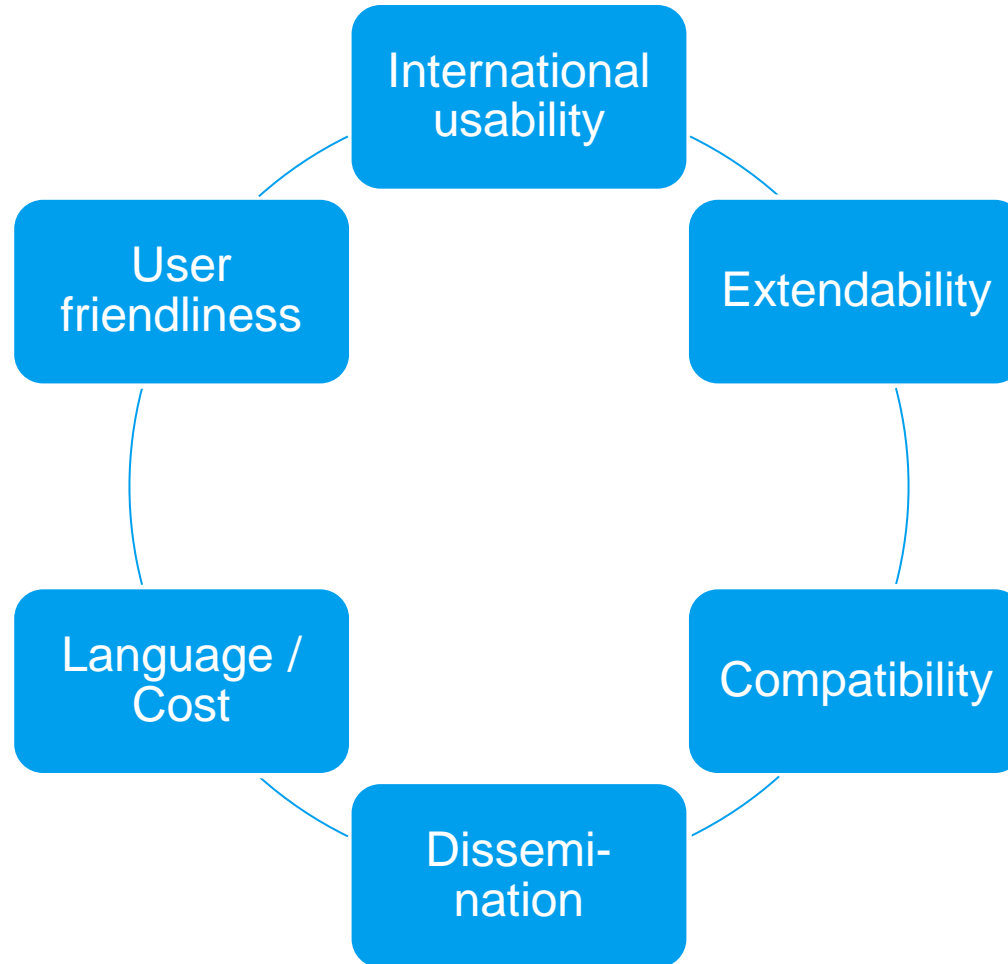
The GEI currently uses a classification system of its own design.

# SUBJECT INDEXING OF TEXTBOOKS

Why look for a new classification?

- Better search options
- Strong desire for increased standardisation and better compatibility with other databases
- Increased internationalisation
- Networking with other european textbook catalogues
  - Edisco: „Italian Data-Base on the Education Book“
  - Emmanuelle International: „Bibliographie de la littérature scientifique française et internationale sur les manuels scolaires“
  - MANES: „School Textbooks in Spain“

# SURVEY CRITERIA



# CLASSIFICATION SYSTEMS

Library classification systems:

- Dewey Decimal Classification (DDC)
- Regensburger Verbundklassifikation (RVK)
- Basisklassifikation (BK)

Special thesauri:

- UNESCO-IBE Education Thesaurus
- TESE The thesaurus for education systems in Europe
- ISCED fields of education and training

# CLASSIFICATION SYSTEMS

Decision made:

- standard for federal states/regions: ISO 3166-2
- levels of education: ISCED

Decision pending:

- subjects



# LOCAL CLASSIFICATION – ISCED LEVELS OF EDUCATION

Description	Local Classification	ISCED
Early childhood Education	k00	ISCED 0
Primary education	k01	ISCED 1
Lower secondary education	k02	ISCED 2
Upper secondary education	k03	ISCED 3
Tertiary education	k06	ISCED 5
Not elsewhere classified	k04	ISCED 9

## LOCAL CLASSIFICATION – ISO 3166-2 (EXAMPLES)

Description	Local Classification	ISO 3166-2
Bayern / Bavaria	bby (Bayern / Bavaria)	DE-BY
Berlin	bbe (Berlin)	DE-BE
UK, Scotland	I004 (Großbritannien)	GB-SCT
US, Florida	I005 (USA)	US-FL

## LOCAL CLASSIFICATION – SUBJECTS (EXAMPLES)

Local Classification	ISCED fields of education and training	UNESCO-IBE
u030 – Geographie / Geography	0521 Environmental sciences	680 Social studies: Geography instruction
u050 – Geschichte / History	0222 History and archaeology	680 Social studies: History instruction
u070 - Sozialkunde/Politik / Social/political studies	0312 Political sciences and civics	680 Social studies: Political education / Social studies
u091 - Werterziehung – Ethik / Values education and ethics	0223 Philosophy and ethics	682 Values education: Moral education

## IMPLEMENTATION AND USE

- Textbook and curricula content can be catalogued and indexed in a standardised process
- Enables structured searches using parameters such as country of validity, subject and education level in the
  - Curricula Workstation, a curriculum information system,
  - TextbookCat, a new search tool for the GEI's textbook collection

# CURRICULA WORKSTATION

- Information system for historic and current curricula worldwide
- Subjects: geography, history, social (and political) studies and religious education/philosophy
- Printed and digital material
- More than 5,000 documents - rapidly growing
- Beta version online since 2013, operational version went online in March 2014



## Information

## Publications

## Topics

## Virtual Research Environment

Home >

News >

Literature Research >

Textbooks >

Textbook collection >

Textbook research >

Academic literature >

General catalogue >

GEI-DZS >

Curricula Workstation >

Multipac >

Education Systems >

Information > Literature Research > Curricula Workstation

Print version

PDF

Suchformular

**Countries** ⓘ

Select countries

All | None

**Subjects** ⓘ

Select subjects...

All | None

**Education level** ⓘ

Select education level...

All | None

**Year of publication** ⓘ

from:  to:

**Free-text search** ⓘ

Currently valid curricula

Full-text search

Cancel selection

**Document format** ⓘ

Only display electronic documents

+ [Feedback](#)

? [Hilfe](#)

PERSONAL ACCOUNT

Username:

.....

> [Create an account.](#)

> [Forgot your password?](#)

### Curricula Workstation in beta testing phase

The Curricula Workstation provides central access to German and international curricula in printed and electronic form. It provides a stable, long-term search platform where almost 5,000 curricula from around the world, covering the subjects of history, geography, social and political studies and values education/religion can be located. It is possible to perform a structured search of the curricula sorted according to different criteria, such as the country, education level, subject, and the year of publication, it is also possible to carry out a full-text search of electronic curricula.

The Curricula Workstation is currently in a beta testing phase. We would appreciate any comments or suggestions for improvement! [curricula-workstation\(at\)gei\(dot\)de](mailto:curricula-workstation(at)gei(dot)de)

[About the Curricula Workstation](#)

[Help](#)

Information

Publications

Topics

Virtual Research Environment

Home >

News >

Literature Research >

Textbooks >

Textbook collection >

Textbook research >

Academic literature >

General catalogue >

GEI-DZS >

Curricula Workstation >

Multipac >

Education Systems >

+ Feedback

? Hilfe

Information > Literature Research > Curricula Workstation

Print version PDF

Suchformular

Countries

All | None

Subjects

All | None

Education level

ISCED 1 - Primary level

ISCED 2 - Lower secondary level

ISCED 3 - Upper secondary level

ISCED 5 - Tertiary education

ISCED 9 - Not attributable

Professional training – all levels

Year of publication

from:  to:

Free-text search

Currently valid curricula  Full-text search

Cancel selection

Document format

Only display electronic documents

PERSONAL ACCOUNT

Username:

.....

Login

> [Create an account.](#)

> [Forgot your password?](#)

## Curricula Workstation in beta testing phase

The Curricula Workstation provides central access to German and international curricula in printed and electronic form. It provides a stable, long-term search platform where almost 5,000 curricula from around the world, covering the subjects of history, geography, social and political studies and values education/religion can be located. It is possible to perform a structured search of the curricula sorted according to different criteria, such as the country, education level, subject, and the year of publication, it is also possible to carry out a full-text search of electronic curricula.

The Curricula Workstation is currently in a beta testing phase. We would appreciate any comments or suggestions for improvement! [curricula-workstation\(at\)gei\(dot\)de](mailto:curricula-workstation(at)gei(dot)de)

[About the Curricula Workstation](#)

[Help](#)

## Results

### Document format

Only display electronic documents

### Countries

All | None

### Subjects

All | None

### Education level

All | None

### Year of publication

from:  to:

Currently valid curricula

Cancel selection

### Free-text search

Full-text search

### Search parameters

Sort according to:

Year

Results per page: 10

[New search](#)

[Search](#)

43 DOCUMENTS WERE FOUND.

1 2 3 4 5 > >>

#### 1 Kerncurriculum für das Gymnasium, Schuljahrgänge 5-10 - Geschichte

Niedersachsen, Kultusministerium - Anhörfassung 2014 - 2014  
Germany, Lower Saxony | History | ISCED 2 - Lower secondary level | Gymnasium: Academic secondary school ("grammar school")



#### 2 Kerncurriculum für die Integrierte Gesamtschule, Schuljahrgänge 5-10 - Gesellschaftslehre

Niedersachsen, Kultusministerium - Anhörfassung 2014 - 2014  
Germany, Lower Saxony | Geography, History, Social studies/politics | ISCED 2 - Lower secondary level | Gesamtschule: Comprehensive school



#### 3 Lehrplan Gesellschaftswissenschaften : Gemeinschaftsschule ; Klassenstufen 5 und 6 ; Entwurf

Saarland, Ministerium für Bildung und Kultur - Entwurf, [Stand:] September 2013 - 2013  
Germany, Saarland | Geography, History, Social studies/politics | ISCED 2 - Lower secondary level



#### 4 Lehrplan Geschichte : Gymnasium ; Klassenstufen 8 und 9 ; Schuljahr 2014/15, Erprobungsphase

Saarland, Ministerium für Bildung und Kultur - [Stand:] Mai 2013 - 2013  
Germany, Saarland | History | ISCED 2 - Lower secondary level | Gymnasium: Academic secondary school ("grammar school")



#### 5 Lehrplan Gesellschaftswissenschaften : Gemeinschaftsschule ; Klassenstufen 7 und 8 ; Entwurf

Saarland, Ministerium für Bildung und Kultur - Entwurf, [Stand:] September 2013 - 2013  
Germany, Saarland | Geography, History, Social studies/politics | ISCED 2 - Lower secondary level



[» Create an account.](#)

[» Forgot your password?](#)

## Curricula Workstation in beta testing phase

The Curricula Workstation provides central access to German and international curricula in printed and electronic form. It provides a stable, long-term search platform where almost 5,000 curricula from around the world, covering the subjects of history, geography, social and political studies and values education/religion can be located. It is possible to perform a structured search of the curricula sorted according to different criteria, such as the country, education level, subject, and the year of publication, it is also possible to carry out a full-text search of electronic curricula.

The Curricula Workstation is currently in a beta testing phase. We would appreciate any comments or suggestions for improvement! [curricula-workstation\(at\)gei\(dot\)de](mailto:curricula-workstation(at)gei(dot)de)

[About the Curricula Workstation](#)

[Help](#)

This is the English version of Edumeres. If there is still information visible only in German, it's because we haven't translated it yet. We are going to put the English version online

## Information

## Publications

## Topics

Virtual  
Research Environment

## PERSONAL ACCOUNT

Home &gt;

News &gt;

Literature Research &gt;

Textbooks &gt;

Textbook collection &gt;

Textbook research &gt;

Academic literature &gt;

General catalogue &gt;

GEI-DZS &gt;

Curricula Workstation &gt;

Multiopac &gt;

Education Systems &gt;



+ Feedback

? Hilfe

Information &gt; Literature Research &gt; Curricula Workstation

Print version PDF

## Geography in the national curriculum for Wales: key stages 2-3 &lt;&gt;

**Editor/author:** Wales, Department for Children, Education, Lifelong Learning and Skills**Edition:** January 2008**ISBN:** 978-075-044-424-8**Published:** Cardiff: 2008**Valid from:** 2008-08-01. In Kraft ab 1. August 2008 für die Schuljahre 3, 4, 5, 7 und 8, ab 1. August 2009 für die Schuljahre 6 und 9.**Scope:** Online-Ressource (PDF-Datei: 22 S., 162 KB)**Series:** Druckausg.: [Geography in the national curriculum for Wales](#)**Notes:** Online-Ausg. auch in Walisisch ersch.**Key words:** Wales / Großbritannien / Geographieunterricht / Grundschule / Sekundarstufe 1 / Schuljahr 3-9 / Lehrplan / Online-Publikation**Reference fields:** Great Britain | Geography | ISCED 1 - Primary level, ISCED 2 - Lower secondary level**Permanent link:** Handle:  
<http://hdl.handle.net/11163/229>**Url:** [http://curricula-depot.gei.de/bitstream/handle/11163/229/736247521\\_2008\\_A.pdf?sequence=2](http://curricula-depot.gei.de/bitstream/handle/11163/229/736247521_2008_A.pdf?sequence=2)  
[http://wales.gov.uk/dcells/publications/curriculum\\_and\\_assessment/arevisedcurriculumforwales/nationalcurriculum/geographync/geographyeng.pdf?lang=en](http://wales.gov.uk/dcells/publications/curriculum_and_assessment/arevisedcurriculumforwales/nationalcurriculum/geographync/geographyeng.pdf?lang=en)  
Volltext, letzter Abruf: 2013-02-05**Download:**  

Username:

.....

Login

> [Create an account.](#)> [Forgot your password](#)**Curricula Workstation beta testing phase**

The Curricula Workstation provides central access to German and international curricula in printed and electronic form. It provides a stable, long-term search platform where almost 50,000 curricula from around the world, covering the subjects of history, geography, social studies and values education/religion can be located. It is possible to perform a structured search of the curricula sorted according to different criteria, such as country, education level, subject, and the year of publication, it is also possible to carry out a full-text search of electronic curricula.

The Curricula Workstation is currently in a beta testing phase. We would appreciate your comments or suggestions.

# TEXTBOOKCAT

- new search tool for the GEI's textbook collection
- aims to enable more user-friendly and intuitive searches of its library collection
- based on the open source discovery software VUFind
  
- From 1 May 2014: public test version available at <http://tbcats.edumeres.net/>



All Fields ▾ Find

### Browse by Country

[Germany](#)  
[Switzerland](#)  
[Austria](#)  
[Romania](#)  
[Great Britain](#)  
[USA](#)  
[Poland](#)  
[France](#)  
[Croatia](#)  
[Bulgaria](#)  
[Lithuania](#)  
[Spain](#)  
[China](#)  
[Hong Kong](#)  
[Taiwan](#)  
[Latvia](#)  
[Estonia](#)  
[Slovakia](#)  
[Slovenia](#)  
[Soviet Union \(until 1991\)](#)  
[More options...](#)

### Browse by Level of Education

[ISCED 0 - Pre-primary education](#)  
[ISCED 1 - Primary level](#)  
[ISCED 2 - Lower secondary level](#)  
[ISCED 3 - Upper secondary level](#)  
[ISCED 9 - Not attributable](#)  
[Professional training – all levels](#)  
[ISCED 5 - Tertiary education](#)  
[Other teaching and learning  
materials](#)  
[Teacher training institutions](#)

### Browse by School Subject


[Readers](#)  
[Primers for beginning readers](#)  
[German taught in non-German-  
speaking countries](#)  
[Geography](#)  
[Geography - atlas](#)  
[History](#)  
[History - atlas](#)  
[Study of the natural and cultural  
world history/geography/society  
\(Germany, Austria, Switzerland,  
pre-1945\)](#)  
[Social studies/politics](#)  
[Social studies and science  
\(primary level\)](#)  
[Curricula](#)  
[Directories of approved textbooks](#)  
[Ethics](#)  
[Philosophy](#)  
[Religion](#)  
[Multidisciplinary teaching and  
learning](#)  
[Atlases for multidisciplinary  
teaching and learning](#)

### Browse by Local Classification

[Post-WWII Germany, US  
occupation zone](#)  
[Post-WWII Germany, British  
occupation zone](#)  
[Berlin](#)  
[Brandenburg](#)  
[Baden-Württemberg](#)  
[Bavaria](#)  
[Post-WWII Germany, French  
occupation zone](#)  
[Bremen](#)  
[Hesse](#)  
[Hamburg](#)  
[Mecklenburg-West Pomerania](#)  
[Lower Saxony](#)  
[North Rhine-Westphalia](#)  
[Rhineland-Palatinate](#)  
[Saxony-Anhalt](#)  
[Post-WWII Germany, Soviet  
occupation zone](#)  
[Saxony](#)  
[Schleswig-Holstein](#)  
[Saarland](#)  
[Thuringia](#)  
[More options...](#)


Showing 1 - 20 of 170409 for search: "", query time: 0.97s

Sort Relevance

1  [Die Quelle \[...\]](#)  
1983  
Call Number: NL D-18(1,83)1m+3


NO IMAGE  
AVAILABLE

 Book ● Available

2  [20. Jahrhundert](#)  
2012  
Call Number: HD-V 399(1,2012)3CD-ROM


NO IMAGE  
AVAILABLE

**Data Media** ● Available

3  [Nya gena :](#)  
1980  
Call Number: Unknown


NO IMAGE  
AVAILABLE

 Book ● Available

4  [Nya gena Studiebok A](#)  
1982  
Call Number: S G-69(1,82)1S,A


NO IMAGE  
AVAILABLE

 Book ● Available

5  [A geography of Sierra Leone](#)  
1972  
Call Number: WAL G-3(1,72)

NO IMAGE  
AVAILABLE

 Book ● Available

6  [Südostasien :](#)  
1971  
Call Number: Z 798 : 144

NO IMAGE  
AVAILABLE

 Book ● Available

7  [Povijest Udžbenik povijesti za 6. razred osnovne škole](#)  
2012  
Call Number: HR H-23(6,2012)6

NO IMAGE  
AVAILABLE

 Book ● Available

8  [Ēkonomiķeskaia i social'naia ģeografija :](#)

#### Country

[Germany \(73522\)](#)

[Great Britain \(6258\)](#)

[France \(5451\)](#)

[Austria \(4573\)](#)

[Italy \(4039\)](#)

[more ...](#)

#### State (Germany)

[Bavaria \(2364\)](#)

[Baden-Württemberg \(2310\)](#)

[North Rhine-Westphalia \(1969\)](#)

[Lower Saxony \(1730\)](#)

[Rhineland-Palatinate \(1237\)](#)

[more ...](#)

#### Level of Education

[ISCED 2 - Lower secondary level \(62445\)](#)

[ISCED 3 - Upper secondary level \(24059\)](#)

[ISCED 1 - Primary level \(23472\)](#)

[Other teaching and learning materials \(21133\)](#)

[Professional training – all levels \(5206\)](#)

[more ...](#)

#### School Subject

[History \(50340\)](#)

[Geography \(36059\)](#)

[Social studies/politics \(21193\)](#)

[Readers \(19476\)](#)

[Curricula \(5102\)](#)

[more ...](#)

#### School Type

[Gymnasium: Academic](#)

All Fields ▾ Find

Retain my current filters

[Home](#) > Search:

Suggested Topics... within your search.

[Geschichtsunterricht](#) (126)

[Gymnasium](#) (126)


[Sekundarstufe 1](#) (126)

[Gesamtschule](#) (4)

[Schuljahr 9-10](#) (1)

Showing 1 - 20 of 126 for search: "", query time: 0.38s

Sort Relevance ▾

1  [Forum Geschichte Vom Absolutismus bis zur Industrialisierung](#)

NO IMAGE  
AVAILABLE

2009

Call Number: HD-V 365(1,2009)8

 Book ● Available

2  [Horizonte \[Schuljahrgänge 5 und 6\]](#)

NO IMAGE  
AVAILABLE

2008

Call Number: HCG-V 32(1,2008)1

 Book ● Available

3  [Von den frühen Hochkulturen bis zum Hochmittelalter](#)

NO IMAGE  
AVAILABLE

1987

Call Number: HDG-V 33(1,87)-1

 Book ● Available

4  [Geschichte und Geschehen \[...\]](#)

NO IMAGE  
AVAILABLE

1993

Call Number: HDG-V 28(2,93)-10

 Book ● Checked Out

5  [Horizonte Kopiervorlagen und Lösungen](#)

NO IMAGE  
AVAILABLE

2007

Call Number: HDG-V 92(1,2007)4S

 Book ● Available

6  [Forum Geschichte Vom Hochmittelalter bis zum Dreißigjährigen Krieg](#)

NO IMAGE  
AVAILABLE

2009

Call Number: HD-V 365(1,2009)7

## Narrow Search

Only display electronic documents

### Remove Filters

- Local Classification: Germany
- Local Classification: ISCED 2 - Lower secondary level
- Local Classification: History
- Local Classification: Gymnasium: Academic secondary school ("grammar school")
- Local Classification: Lower Saxony

### Country

Germany

### State (Germany)

Lower Saxony

Bremen (23)

Thuringia (9)

Hamburg (1)

North Rhine-Westphalia (1)

[more ...](#)

### Level of Education

ISCED 2 - Lower secondary level

### School Subject

History

Curricula (4)

### School Type

# LOOKING AHEAD

This new classification system is part of the Georg Eckert Institute's strategy aimed at constructing modern digital research infrastructure tailored to users' needs.

- Next steps:
  - Deciding on subjects
  - Data maintenance
  - Networking with other educational databases

# LESSONS LEARNED

- Sometimes a „one fits all“ approach does not work  
→ a combination of different classification systems can make sense
- Cooperation and network-building drives development
- Close collaboration between cataloguing and technical implementation of standards



<http://socialstrategist.com/wordpress/wp-content/uploads/2010/12/SuccessFailure.jpg>





THANK YOU FOR LISTENING!