



## The Achievement Standards Network (ASN)

AchievementStandards.Org is the home of the ASN. Achievement Standards are statements of what learners should know and be able to do. They may be promulgated by state departments of education, national content groups, professional organizations, labor or skill boards, and certification bodies, both in the public and private sectors. They are often referred to as learning standards, academic standards, content standards, skill standards, competency standards and performance standards, or by other terms. Many include specific granular statements of achievement levels or proficiencies in the form of benchmarks or rubrics.

The ASN contains standards from select national organizations, all fifty states and DC in the areas of ELA, math, science, social studies and the arts. The ASN is updated constantly with updates available quarterly as a download or sooner via web services. Work is underway to include non-U.S. jurisdictions (e.g., Ireland, Singapore and Australia (states and territories)).

The ASN has five distinct components:

- A repository of academic standards (both document and components statements) each with its own Globally Unique Identifier (URI);
- An input tool, enabling direct input of standards documents into the repository;
- Viewers and web services to access the standards;
- A resolution service that resolves the Globally Unique Identifier into machine readable text; and
- A network of organizations that share, use, develop tools and leverage the technical advantages of the ASN in improving education.

The Achievement Standards Network (ASN) provides services to enable a developer to view the collection of documents included in the ASN database.

### ASN Document Viewer

The ASN Document Viewer provides a tree view of all the documents within the ASN database. This view has been very useful for publishers' review of available standards documents.

### ASN Toolkit

The ASN Toolkit will be a one stop shop for a cataloging tool, a mapped view of state standards documents, correlation tools that use the ASN standards and a mapping tool, enabling the user to align statements to each other.

### ASN Standards Viewer

The ASN Viewer provides a hierarchical view of each states' standards document's content. This view has been very useful for state representatives' review of their data.

### Partial List of Organizations using ASN Data

- The National Science Foundation
- Thinkfinity
- Teach Engineering
- The National Science Digital Library
- Michigan e-Library
- DLESE Earth Sciences
- The Center for Natural Language Processing
- WGBH Teachers' Domain
- State Educational Technology Directors Association
- The National Education Association
- The Kennedy Center
- National Council on Economic Education
- National Endowment for the Humanities
- NCTM—Resources for Teaching Math
- National Center for Family Literacy
- International Reading Assoc.
- Smithsonian
- National Geographic
- The American Association for the Advancement of Science
- Education through Cultural and Historical Organizations
- National Science Teachers Association
- Global Grid for Learning
- Cambridge University Press
- EdGate



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<http://www.achievementstandards.org>

<http://www.thegateway.org>



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The **Achievement Standards Network (ASN)** provides services to enable a developer to view the collection of documents included in the ASN database, view the hierarchy of statements within a standards document, use web services to return the list of documents based on jurisdiction and subject, export the standards data in RDF/XML for use in a local application and resolve the Globally Unique Identifier assigned to each statement in the collection.

**Standards Development Application** assists standards bodies in developing well structured standards by providing a Web-based standards authoring environment. Developed originally for SETDA, the development application is available to ASN member organizations maintaining standards within the ASN.

**Standards Repository Application** manages the ACSR data store of state, national, and international standards as well as the interface to the standards development application.

**The Standards Repository Application** also handles the processes associated with batch download of RDF/XML standards documents under license by third-party publishers, intermediaries and other service providers.

**Metadata Generation Interface** (in development) provides the means through Web Services for third-party metadata generation tools to interact with the ACSR supporting searching and browsing and the assigning of ASN unique statement identifiers (URIs) to local metadata records.

**ASN URI Resolver Application** dereferences a state or national ASN standard URI embedded in a metadata record to the full-text of the URI's associated ASN taxon path.

**ASN Web Services** provide 5 methods necessary to programmatically retrieve ASN documents:

- The first method retrieves an XML document containing the listing of the available jurisdictions (e.g., California) with standards in the ASN;
- The second method retrieves standards by subject;
- The jurisdiction and (optional) subject are used in the third method to retrieve a listing of documents and their ID's;
- These document ID's actually retrieve the document using the fourth method; and
- The fifth method is a full text search.

You can use the Web Services Input to directly access the xml output from the service and display it, or use the Client Application to access the document listing and output the document xml.