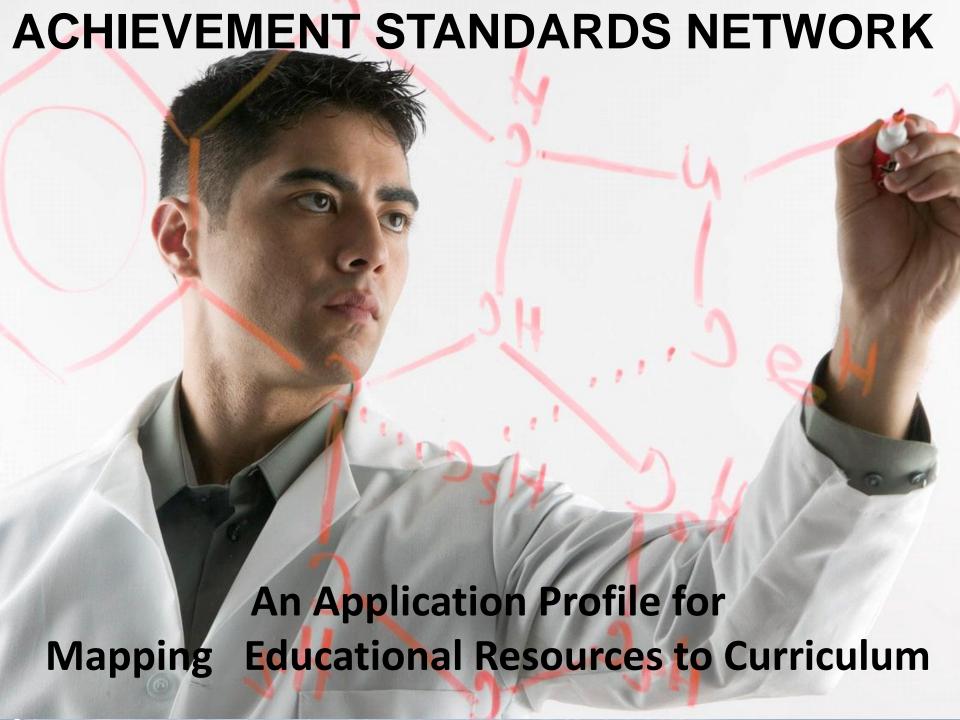
The Global Learning Resource Connection Supporting the Next Generation of Education

The Achievement Standards Network (ASN)

A JES & Co. Program

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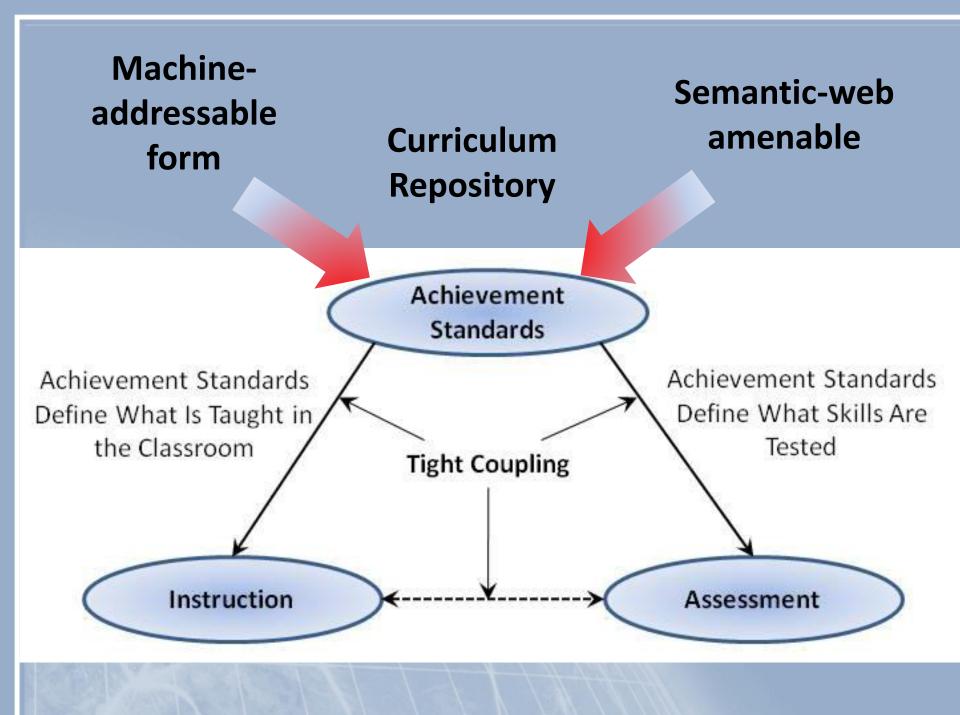
The Facts...

- Large repositories of educational resources are being created
- Countries, states and territories have various forms of curriculum e.g., national curricula (Achievement Standards)
- Metadata mapping educational resources to curriculum supports teaching, learning and accountability

ASN Goals...

- Create a multi-national bank of curriculum in machine addressable form that
 - Are accurate digital representations of curriculum documents and their component statements (semantic units);
 - Are consistent in form; and
 - Are modeled in RDF and amenable to the emerging Semantic Web.
- Design an extensible framework to support evolving uses.
- Provide open access.





We Started with the 50 U.S. States







Process ...

- Gathered all current and historical curriculum documents in the United States
 - (In the USA, 761 documents have been decomposed (atomized) into "statements" derived from document structure and content in excess of 350,000 learning objective statements)
- All documents and statements were assigned URIs and that are dereferencable over the Web

Two Basic Functions

Relate



In a Machine Readable Format



Richly Describe the Curriculum ...

Description

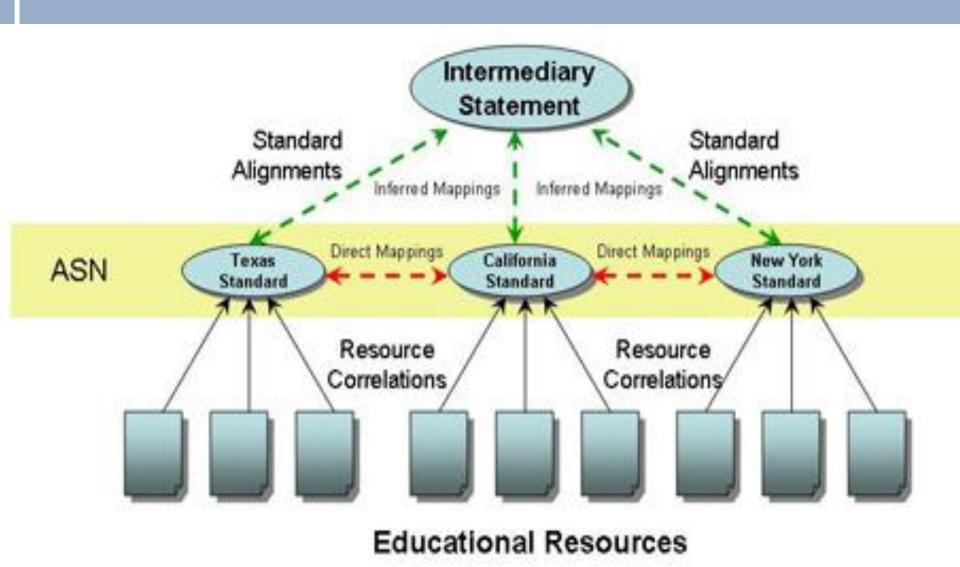
- Author
- Comment
- Concept Term
- Description
- Education Level
- Jurisdiction
- Local Subject
- Publisher
- Skill Embodied
- Spatial (aspects)
- Statement Label
- Statement Notation
- Subject
- Temporal (aspects)

Administration

- Authority Status
- Change Note
- Created
- Date Copyrighted
- Date Valid
- Editorial Note
- History Note
- Indexing Status
- License
- Publication Status
- Rights
- Rights Holder

Relationships

- Align To
- Align From
- Cross SubjectReference
- Derived From
- Has Child
- Is Child Of
- Source



Relate the statements to each other and to resources.



FREE lesson plans and educational resources



my Thinkfinity



educator student parent afterschool

Integration Malth of Thinkfinity

ARTSEDGE ReadWriteThink

EconEdLink Science NetLinks

Consortium Partners:

EDSITEment Smithsonian's History

Explorer

Illuminations

Literacy Network Xpeditions

Verizon Foundation



- ARTSEDGE lessons incorporate the <u>National Standards for Arts Education</u>.
- EconEdLink lessons address the <u>Voluntary National Content Standards in Economics</u>.
- EDSITEment references the following standards, accessible from its reference shelf:
 - International Reading Association (IRA)/National Council of Teachers of English (NCTE) Standards for the English Language Arts
 - o National Geography Standards
 - o National Council for Social Studies Curriculum Standards
 - National Standards for Arts Education
 - National Standards for Foreign Language Education
 - National Standards for Civics and Government
- Illuminations lessons incorporate, or "illuminate," the <u>National Council of Teachers of Mathematics?</u>
 (NCTM) Principles and Standards for School Mathematics.
- ReadWriteThink lessons address the IRA/NCTE Standards for the English Language Arts.
- Science NetLinks' content is organized around the Benchmarks for Science Literacy.
- Smithsonian's History Explorer lessons are aligned to the <u>UCLA National Center for History in the Schools (NCHS) History Standards</u>
- Xpeditions lessons are aligned to the National Geography Standards.

The following State Education Partners are working with Thinkfinity.org to review and validate the new state standards alignment project:

- · Georgia Department of Education
- Massachusetts Department of Elementary and Secondary Education
- West Virginia Department of Education
- Wisconsin Department of Bublic Instruction





Engineering Resources for K-12

MyTE Login What is MyTE?

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Living Labs

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Jan 2009 Workshop

Premier Curriculum Award for K-12 Engineering

Funded by:





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Welcome to the world of K-12 engineering education!

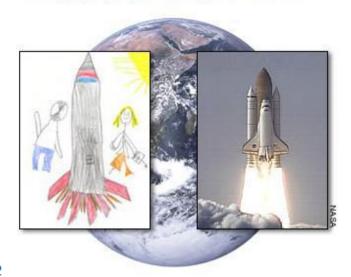


Now celebrating over 500 activities!

Engineers have a hand in designing, creating or modifying nearly everything we touch, wear, eat, see and hear. Introducing engineering into the K-12 classroom connects science and math concepts to the everyday engineering that surrounds us. This teacher resource, TeachEngineering.org, helps teachers enhance learning, excite students and stimulate interest in science and math through the use of hands-on engineering.

The TeachEngineering digital library provides teacher-tested, standardsbased engineering content for K-12 teachers, to use in science and math Engineering lessons al-world experiences with curricular content already taught in K-12

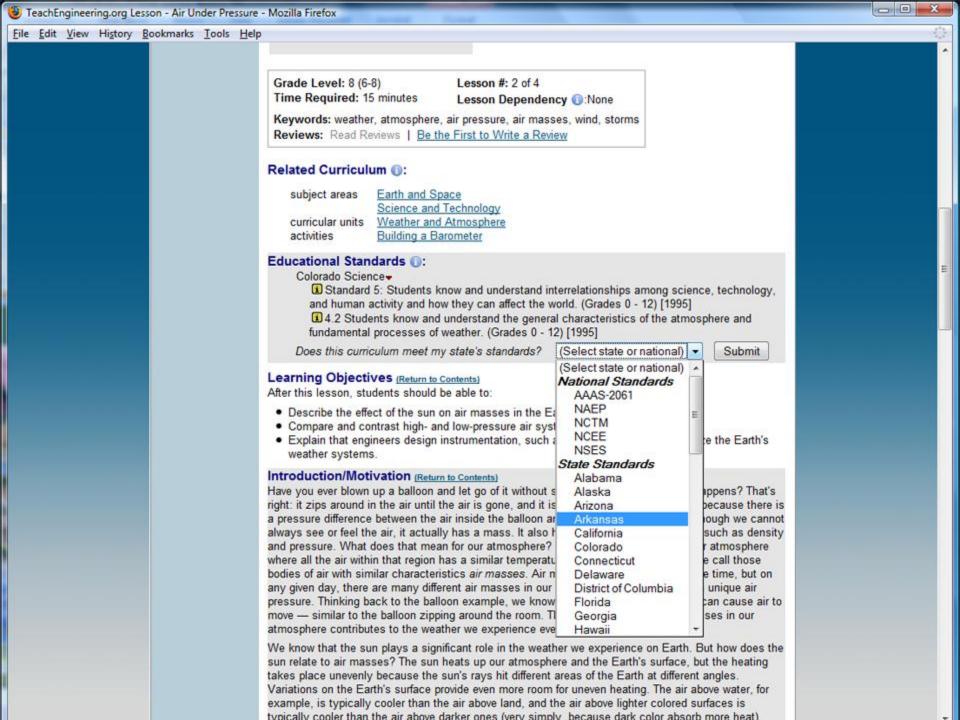
Just a cute kid with a great imagination... or an aspiring engineer who will shape our world?



classrooms. Mapped to educational content standards, TeachEngineering's comprehensive curricula are hands-on, inexpensive, and relevant to children's daily lives.

this collection:

- ch the collection by specifying keywords grade levels, educational standards, or other
- Browse curricular contents by subject area, curricular units, lessons or activities
- Access your favorite items and submit reviews in your own personalized MyTE area



WGBH: Produced in Boston, shared with the world



Stay in the know about upcoming shows. Get email updates





Violinist Joshua Bell performs with the BSO Live from Tanglewood, July 12 on WGBH 89.7

Today is Thursday Jul. 9

TV

Radio

Multimedia

Pledge & Renew

Ways to Support WGBH V

Shop

Corporate Sponsorship V

Events

Kids/Parents/Educators >

About WGBH

Contact WGBH

Integration

WGBH

Super Why! teaches preschoolers reading fundamentals through fairy tale adventures, weekdays on 2 and

Radio

Hear Haydn's The Creation in concert from Dresden, Tuesday-Thursday, July 7-9, at 2pm on WGBH 89.7.



All Things Considered offers a mix of news, features, and commentary, weekdays, 5pm-7pm, WGBH 89.7.

P.O.V. captures Johnny Cash at his peak, fresh off the success of 1968's At Folsom Prison, tonight at 9pm on 2.



Jennifer Nettles's country/pop duo Sugarland performs on Soundstage, tonight at 10pm on 44.

ton examines the region's news and newsmakers, tonight at 7pm on 2.

KIDSMEDIAMATTERS.ORG GET OUR FREE KIT

Today's headlines

Today's digital mural



My WGBH Email updates from WGBH

Member Center Update profile Sign up



Support for WGBH.org provided by:

Donate your car to support WGBH programs.

We'll pick it up, give you a tax receipt, and drive away.



Search

Advanced Search

User: Diny Golder of CANYON DEL ORO HIGH SCHOOL

My Folders▼ My Groups My Profile

? Help | Sign out

Resource: Chess Wager

Recommended for: Grades 5-8



Save to a folder

Recommend to a Colleague

<u>Cite This Resource</u>

Media Type: QuickTime Video Length: Size: 9.5 MB

View

Download

Permitted use: Download and Share



In this video segment from Cyberchase, Harry plays a game of chess with a young friend and suggests a wager on the game. Harry's friend uses a story to explain how putting a penny on the first square and then doubling the amount on each square of the chessboard can generate a tremendous amount of money over time.

Frame and Focus Follow Up Connections Standards

Standards for Grades: 1-12 Change grade range

About standards correlation

close

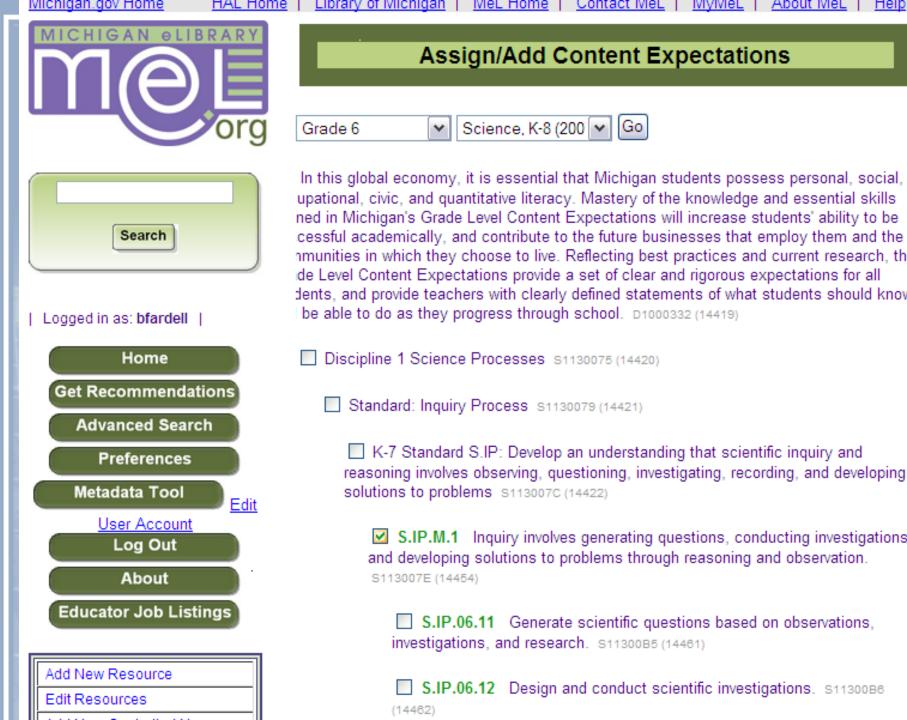
Academic standards correlations on Teachers' Domain use the <u>Achievement Standards Network</u> (ASN) database of state and national standards, provided to NSDL projects courtesy of JES & Co.

NSDL:ASN & Achievement Standards Network

We assign reference terms to each statement within a standards document and to each media resource, and correlations are based upon matches of these terms for a given grade band. If a particular standards document of interest to you is not displayed yet, it most likely has not yet been processed by ASN or by Teachers' Domain.



Exponential Growth Introduced



Assign/Add Content Expectations

Science, K-8 (200 V Grade 6

In this global economy, it is essential that Michigan students possess personal, social, upational, civic, and quantitative literacy. Mastery of the knowledge and essential skills ned in Michigan's Grade Level Content Expectations will increase students' ability to be cessful academically, and contribute to the future businesses that employ them and the nmunities in which they choose to live. Reflecting best practices and current research, the de Level Content Expectations provide a set of clear and rigorous expectations for all dents, and provide teachers with clearly defined statements of what students should know be able to do as they progress through school. D1000332 (14419)

- Discipline 1 Science Processes \$1130075 (14420)
 - Standard: Inquiry Process \$1130079 (14421)
 - K-7 Standard S.IP: Develop an understanding that scientific inquiry and reasoning involves observing, questioning, investigating, recording, and developing solutions to problems \$113007C (14422)
 - S.IP.M.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation. S113007E (14454)
 - S.IP.06.11 Generate scientific questions based on observations. investigations, and research. S11300B5 (14481)
 - S.IP.06.12 Design and conduct scientific investigations. S11300B8 (14462)





Source:	

Subject(s): None Selected ▼
Search/Add

Release Not OK for Viewin V

Date Of Record Creation:*

2008-09-26 17:07:41

Date Of Record Release:*

e Of 2008-09-26 17:07:41

Date Record Checked:*

2008-09-26

Added By Id: bfardell

Last Modified By <u>bfardell</u>

ld:

ERIC Descriptor(s):

Choose More ERIC Descriptors

Content Expectation (s):

S.IP.M.1[S113007E] Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.

Choose More Content Expectations

Remove Checked Content Expectations

Add Record

Cancel







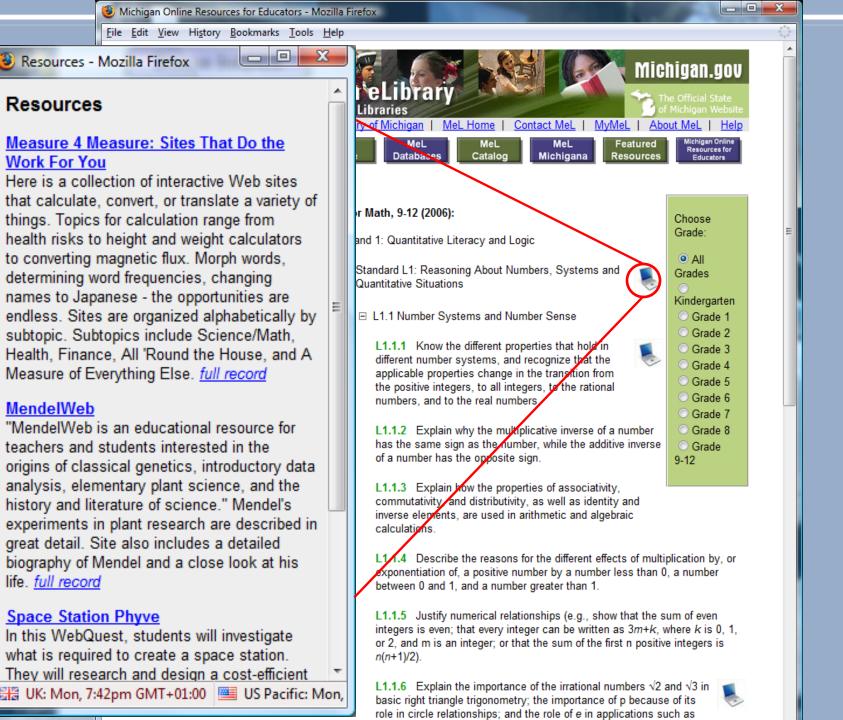




This service is funded in part by the State of Michigan through the Library of Michigan.

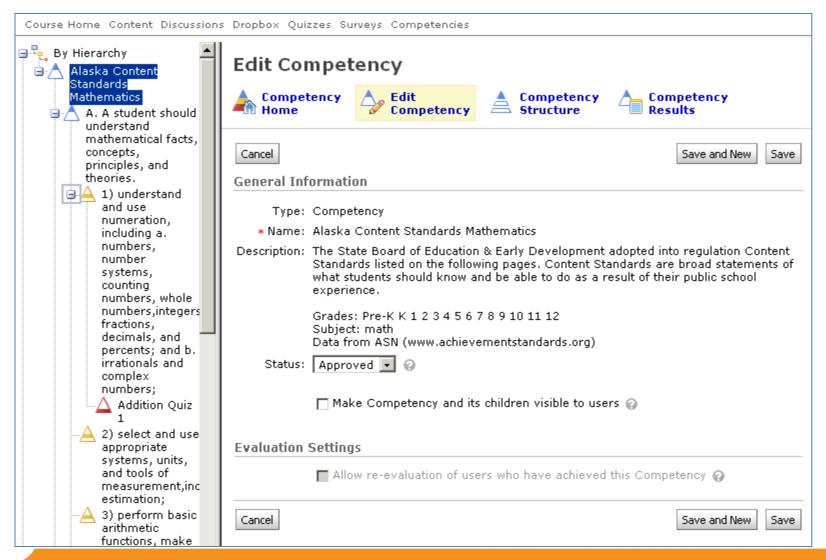
Additional project support comes from the Federal Library Services and Technology Act (LSTA) via the <u>Institute of Museum and Library Services</u> (IMLS).

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Competency Example





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The GATEWAY to 21st Century Skills

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Great Public Schools for Every Student

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Password

log in

Forgot your password?

New user?



Search for:

Full Text

FIND RESOURCES

+ BROWSE

show ~

Browse by subject (glossary)

all (2) | arts (4116) | educational technology (2447) | foreign languages (881) | health (3591) | language arts (7710) | mathematics (4463) | philosophy (348) | physical education (1810) | religion (541) | science (11666) | social studies (12563) | vocational education (436) |

View your States' Academic Standards

Joann's Weekly Picks

Do you want to see how well the Gateway's resources meet your State's standards? Join us as we test our "standards suggestion", provided by the Center for Natural Language Processing. It is as easy as 1-2-3. 1- Use the faceting search engine to find a resource that meets your needs 2- Click on the "View, share, comment" button 3- Choose your state, subject and grade and push the "suggest standard" button. It is just that easy. Please send us your feedback to brucew@jesandco.org.



Battle of the Bulge

Childhood obesity has become a major concern for nations worldwide.

WHAT EDUCATORS ARE LOOKING FOR

Second State Color State Color

PEGGY'S CORNER

Gateway members, we have exciting news. We are testing a "standards suggestion" tool. Please help us make the Gateway Your Gateway. Follow Joann's simple 1, 2, 3 steps and send us feedback.

You Are What You Eat

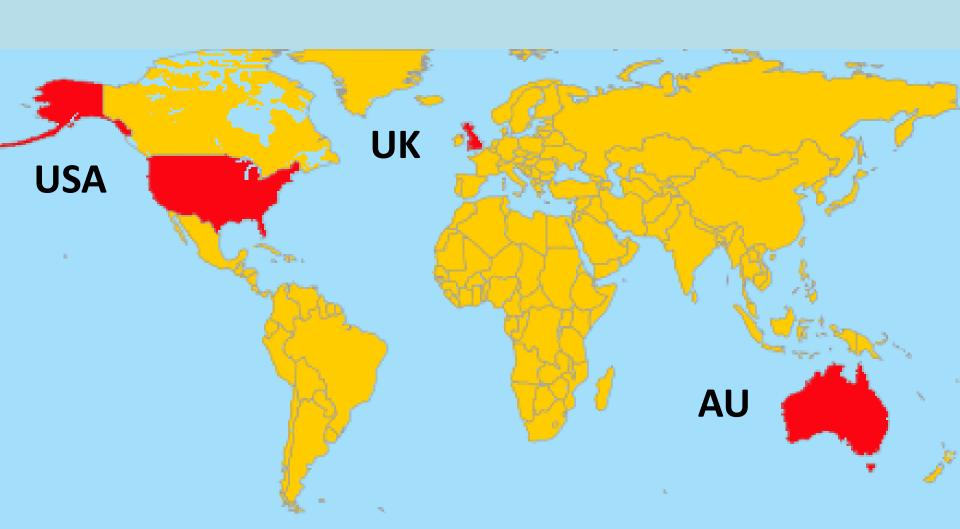
You can hardly turn on the TV any more without seeing some kind of a message about healthy eating. Jamie Oliver is trying to



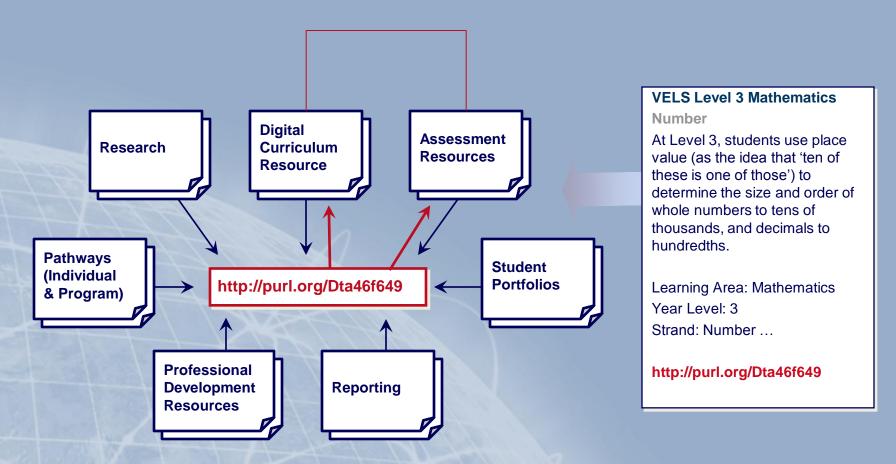
Search

Jamie Oliver is trying to change school cafeterias in his "Food Revolution" series while "The Biggest Loser" shows contestants learning to eat right and exercise to lose weight. In between shows on the Disney Channel, my kids love watching "Captain Carlos" and "Tasty Time With ZeFronk," both shorts that target healthy eating for the preschool set. More...

We expanded the Work to Include Australia and the UK.



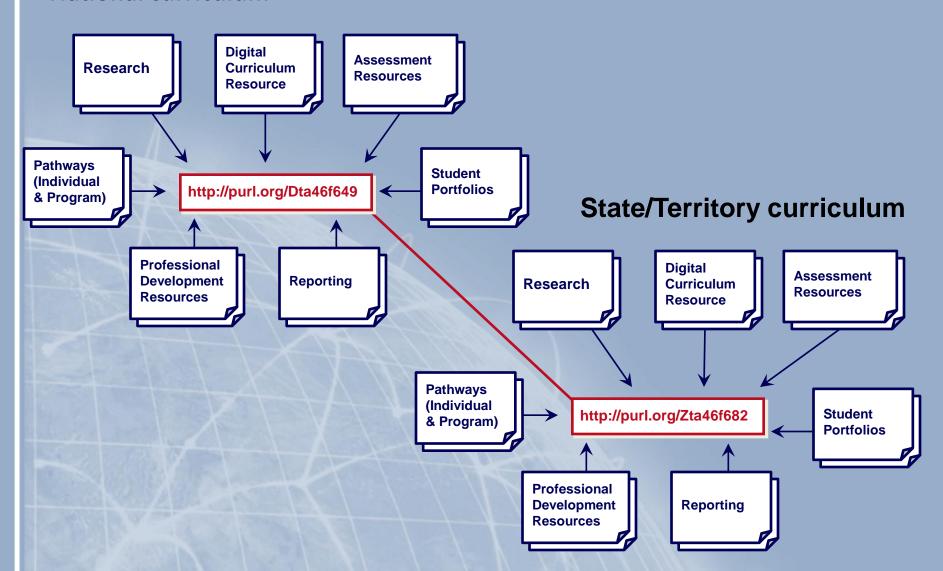
National Curriculum*



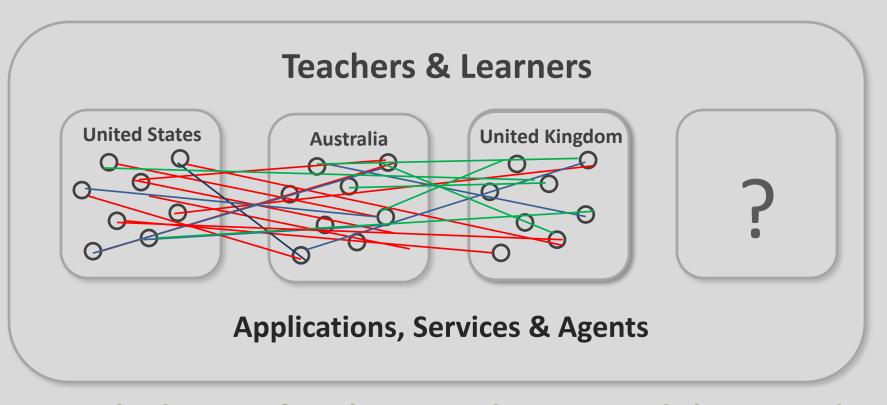
*This slide was created in a working session with state and federal education leaders in May 2009, Melbourne, Australia, while consulting to them regarding Australia's National standards efforts.

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National curriculum*







Linked Australia, the United States and the United Kingdom using Linked Data principles

Expand the Work to Include European Countries



Global interoperability

- Open source achievement standards data with globally unique, Webresolvable identifiers (URI) support:
 - Efficient integration of data from disparate resource providers
 - Resource sharing and linking related resources
- Support of curriculum that is language independent



Global Learning Resource Connection;

collaborating to *connect the dots* between education systems that support teaching and learning.



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