

# OER and the Changing Face of Instructional Materials

NOT YOUR PARENTS' TEXTBOOKS

---

Barbara Soots  
Open Educational Resources Program Manager  
[barbara.soots@k12.wa.us](mailto:barbara.soots@k12.wa.us)

Office of Superintendent of Public Instruction



# Agenda

---

Introductions

Instructional materials ecosystem

Why OER

Benefits and challenges

Using OER

Developing and remixing OER – understanding copyright and licensing

Next steps: theory into practice



# Old vs New

---

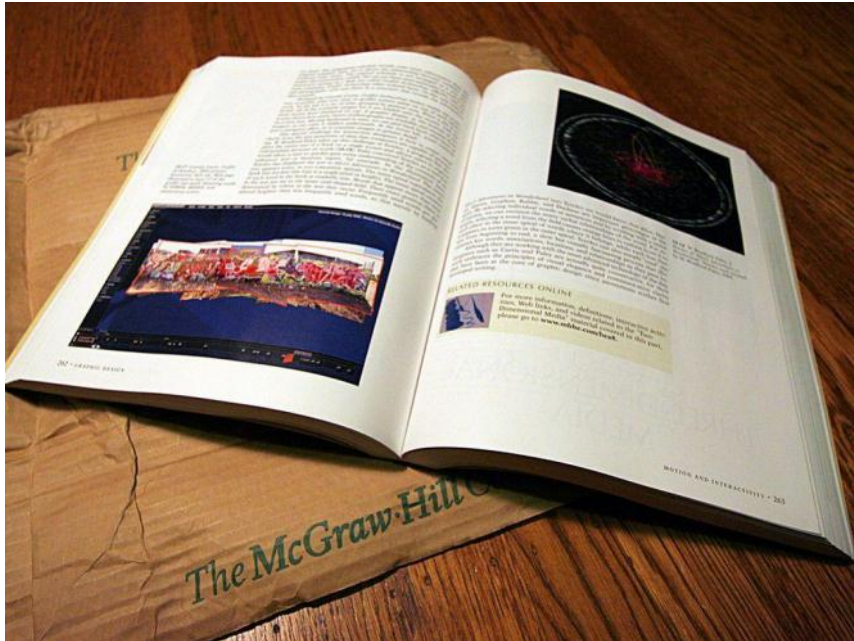


Photo by otherthings - Creative Commons Attribution-NonCommercial-ShareAlike License <https://www.flickr.com/photos/18619970@N00>



Multimedia by hugoespinozas- Creative Commons Attribution-NonCommercial-ShareAlike License <https://www.flickr.com/photos/95175310@N08/>



# Under the Instructional Materials Umbrella



Individual units, lessons, and plans  
Supplemental resources – formally adopted or not  
K-12 core curricula  
District-created materials/resources  
Online courses  
Teacher-created materials

These resources may be in any delivery platform and carry any license



# Instructional Materials Policy

POLICY

APRIL 2015

## Former "Curriculum" Policy overhauled to reflect 21st century instructional materials

In partnership with OSPI's Department of Teaching and Learning and the statewide Curriculum and Review Committee (CARC), WSSDA has overhauled its Policy/Procedure 2020, formerly titled Curriculum Development and Adoption of Instructional Materials. The updated policy/procedure, retitled Course Design, Selection and Adoption of Instructional Materials, recognizes that curriculum is now the state standards. The focus has shifted from curriculum design to selection of instructional materials and course design to support the standards.

The updated procedure offers several improvements. Gone are the days of the seven-year review cycle. Districts are now recommended to establish a regular cycle of course design review based on student need, rapidly changing demographics and funding. The new procedure also provides a handy matrix for rapid review of the roles of the staff, principal, superintendent, Instructional Materials Committee and School Board.

Additionally, the policy and procedure address Open Educational Resources (OER). OER are teaching, learning and



research resources that reside in the public domain or have been released under an intellectual property license that permits their free use and re-purposing by others. The purpose of OER participation is to positively impact both teaching and learning by providing teachers and administrators with cost-effective materials that are available for sharing, accessing and

collaborating for personalized learning. A wide variety of these materials, including core instructional materials are currently available and the new policy and procedure recommend that districts encourage their use by teachers. However, districts should note that OER materials are subject to the same selection and adoption processes as more traditional materials.



## Updated District Sample Policies & Procedures – Updated April 2015

## Instructional Materials Selection & Adoption: Policy 2020; 2020P

- Electronic Resources
- Employee-Created Instructional Materials (potential new)
- Media and Library



<http://wssda.org/Services/PolicyandLegal/FeaturedPolicies.aspx>



# Roles and Responsibilities

Instructional Material Type	Role				
	Certificated Teaching Staff	Principal	Superintendent	Instructional Materials Committee (IMC)	School Board
Core material	identify		establish adoption procedure	recommend	adopt
Alternative core	identify		designate selector		
Intervention	Identify		designate selector		
Supplemental	identify	designate selector			
Temporary Supplemental	select – within district guidelines				

<http://wssda.org/Services/PolicyandLegal/FeaturedPolicies.aspx>



# Look familiar?

The image shows a screenshot of a Pinterest board titled "Social Studies Resources". At the top, there is a navigation bar with categories: Ideas, Activities, Student, First Grade, Lesson Plans, Link, Teachers, Interactive Notebooks, Learning, and Teaching. Below this, there are tabs for "All Pins", "Your Pins", "Pinners", and "Boards". The main content area features several pins:

- Social Studies Resources Grades 3-6:** A pin with a cartoon dog holding an American flag. Description: "Social Studies Resources from Laura Candler's online File Cabinet - Lots of freebies!".
- Little Passports:** A pin showing a blue suitcase and various travel-themed items. Description: "Supplement your geography curriculum with a subscription to Little Passports! One country a month, packages arrive filled with letters, souvenirs, stickers, activities & more.".
- Common Core Social Studies Texts:** A pin with a collage of book covers including "BIBLIOBURRO", "SIT-IN", "JEAN-FRITZ", and "LINCOLN". Description: "10 Authors for Elementary School Social Studies Teachers to Know | Delightful Children's Books".
- Free Home School Social Studies Resources:** A pin with a world map made of puzzle pieces and a yellow circle containing the text "Free Home School Social Studies Resources".
- Me and My Earth's Natural Resources:** A pin with a cartoon boy and a sun. Description: "First Grade Wow! A Natural Resources Unit (FREE!) Integrated with writing, math, etc.".

At the bottom, there are more pins including "The Seven" and "Social Studies Websites for Teachers".



## Do I have permission to...

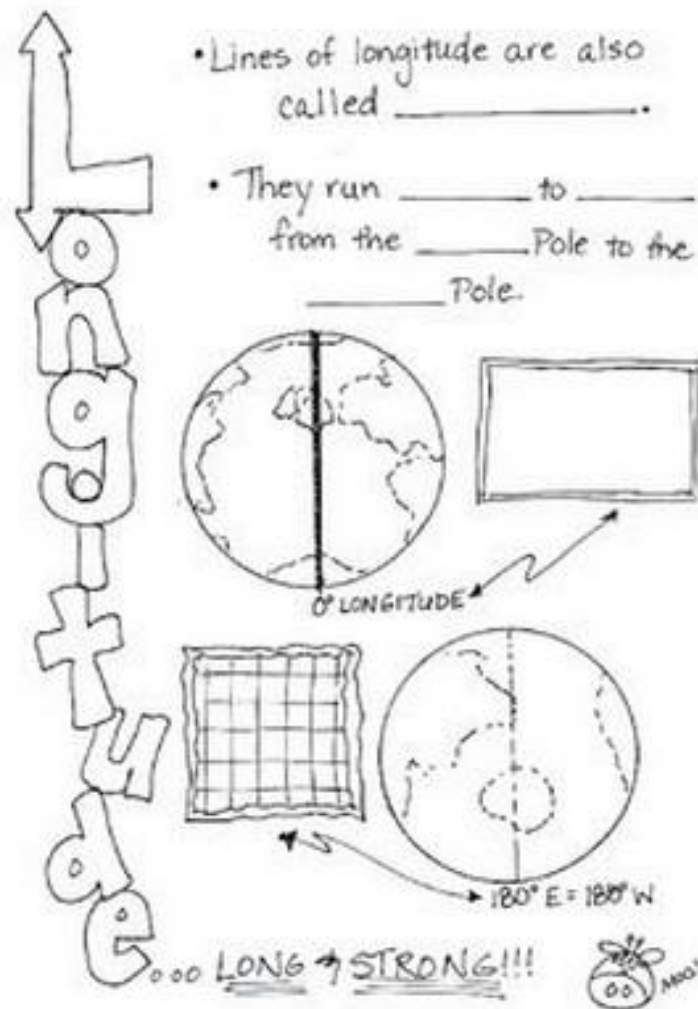
Download and print this?

Make adaptations?

Share this with my colleagues?

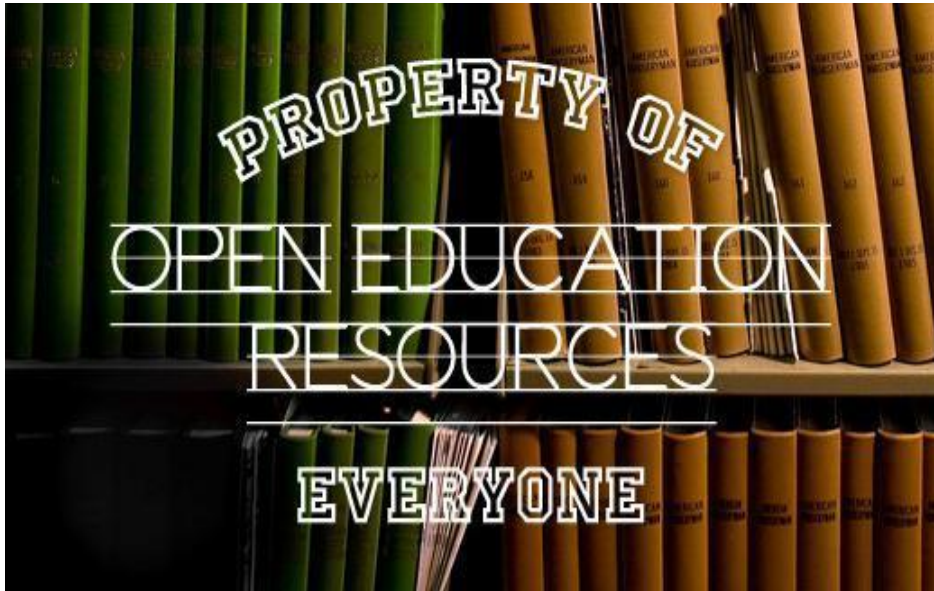
Repost and distribute this material and any adaptations I make on a wider scale?

Who do I go to for answers to these questions?



# OER – Helping Change the Paradigm

---



Open Educational Resources (OER) reside in the public domain or have been released under an intellectual property license that permits their **free use** and **re-purposing** by others.



# OER are NOT

---



Photo by nickwheeleroz - Creative Commons Attribution-NonCommercial-ShareAlike License  
<https://www.flickr.com/photos/7762644@N04>

**Any free resources on the internet**  
FREE is not the same as OPEN.

**Any one specific type of instructional material**  
OER may fall into any of the instructional materials categories

**Strictly digital resources**  
OER is a license not a delivery platform.

**A replacement for copyright**  
Open licenses are just a set of permitted uses that the copyright holder clarifies.



# The 5 Rs of OER

---



Photo by Leo Reynolds - Creative Commons Attribution-NonCommercial-ShareAlike License  
<https://www.flickr.com/photos/49968232@N00>

**Reuse** — copy verbatim

**Redistribute** — share with others

**Revise** — adapt and edit

**Remix** — combine resources

**Retain** — make, own, & control copies



# Clearly define user permissions

**SUBJECTS**

- » Biology
- » Chemistry
- » Engineering
- » Humanities & Social Sciences
- » Mathematics
- » Physics

**EXAM PREP**

- » Biology
- » Calculus
- » Chemistry
- » Physics

**MORE**

- » Intro for Students
- » Intro for Teachers
- » Other MIT Resources
- » What is Highlights?

**FEATURED SITES**

- » MIT OpenCourseWare
- » OCW Educator
- » MITx Courses on edX
- » Teaching Excellence at MIT
- » Open Education Consortium

**TOOLS**

- » Help & FAQs
- » Contact Us
- » Advanced Search
- » Site Map
- » Privacy & Terms of Use
- » RSS Feeds


 **Massachusetts Institute of Technology**

© 2001–2015  
Massachusetts Institute of Technology

 **OPEN EDUCATION CONSORTIUM**  
The Global Network for Open Education



Your use of the MIT OpenCourseWare site and materials is subject to our [Creative Commons License](#) and other [terms of use](#).

 **Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0)**




This is a human-readable summary of (and not a substitute for) the [license](#).  
[Disclaimer](#)

**You are free to:**

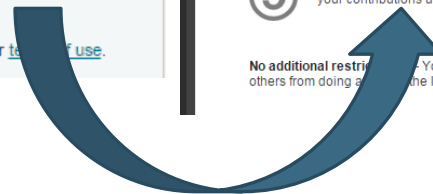
- Share** — copy and redistribute the material in any medium or format
- Adapt** — remix, transform, and build upon the material

The licensor cannot revoke these freedoms as long as you follow the license terms.

**Under the following terms:**

-  **Attribution** — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.
-  **NonCommercial** — You may not use the material for commercial purposes.
-  **ShareAlike** — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original.

**No additional restrictions** — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits.



# Encourage innovative uses of materials...

**SREB**

SREB Readiness Courses  
*Transitioning to college and careers*

# Math Ready

Ready for college-level math  
Version 2

Precision  
Problem Solve  
Reason  
Construct Viable Argument

Southern  
Regional  
Education  
Board

592 Tenth Street, NW  
Atlanta, GA 30318  
(404) 875-9211  
www.sreb.org



Washington State  
Bridge to College  
Mathematics Course

Adapted from Math Ready  
A Southern Regional Education Board Transition Course



# Open Licenses

---

Traditional  
Copyright Alone

Open License

Public  
Domain



All Rights  
Reserved

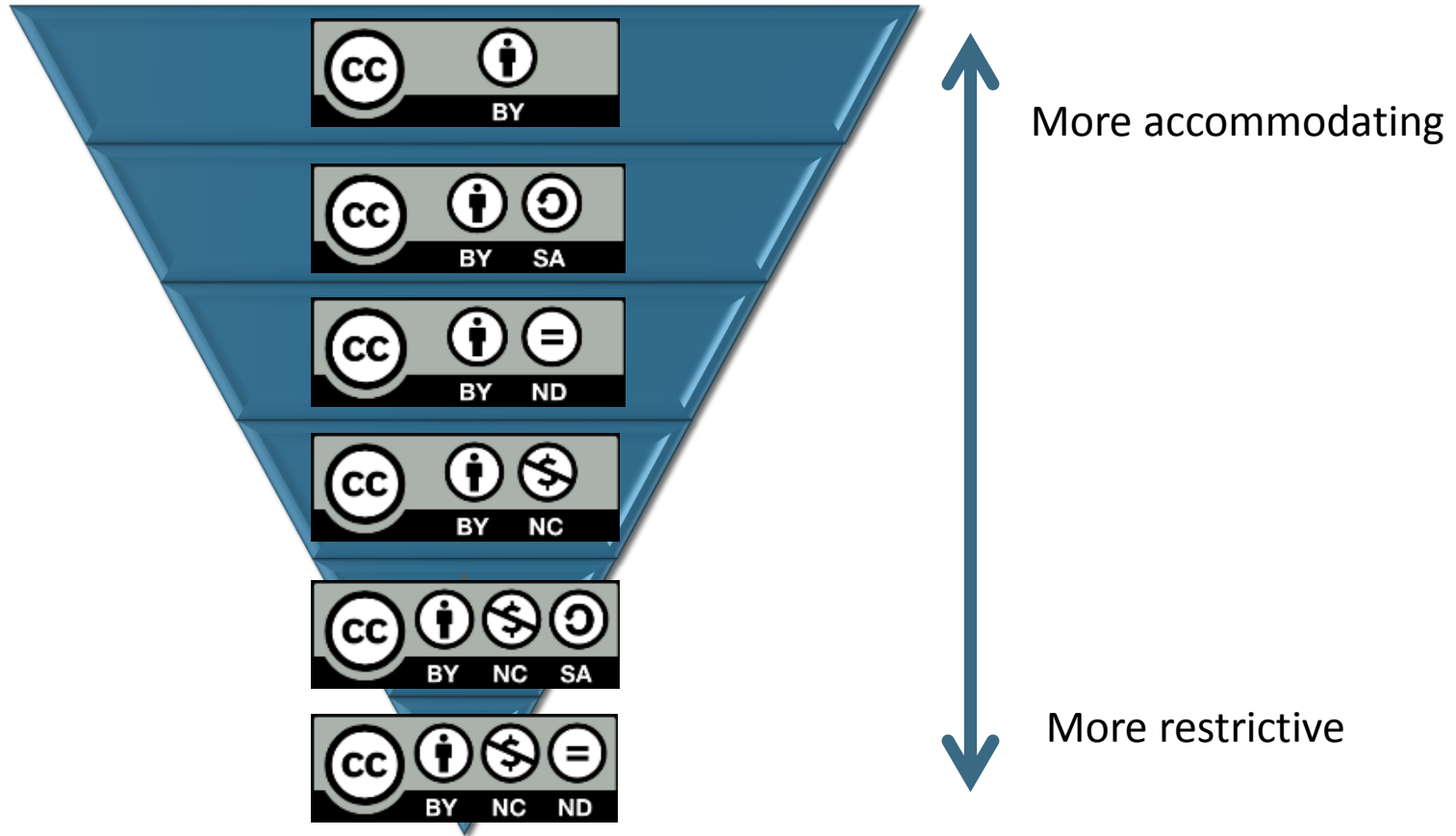
Some  
Rights  
Reserved

No Rights  
Reserved

Adapted from Creative Commons in the Classroom – J. Goates  
<http://www.slideshare.net/Jessicacoates/creative-commons-in-the-classroom-2013#/>



# Creative Commons Licenses



<http://creativecommons.org/about/licenses/>



# OER Considerations

---

## BENEFITS

Cost shift from textbooks to other critical areas

Up to date, innovative materials

Collaboration and partnerships

Continual quality improvement and standards alignment

Support for independent and differentiated learning

Solve legal concerns with distribution and adaptation

## CHALLENGES

Finding target resources

Evaluating quality and alignment

Time to adapt resources that are not perfectly aligned with district needs

Access and security issues

District policies that don't recognize OER as an option



# Using OER (or any instructional material)

---

**Before you think about using ANY resource, you need to answer some questions...**

What category of instructional materials does the resource fall into? Does the item need to go through a vetting process? By whom?

Do I have permission to use this? Is it open? What license type?

Are adaptations required and do you have permission to adapt?

What is the delivery platform? Is it accessible offline?



CC BY SA Question Mark by alexanderdrachmann  
<http://www.flickr.com/photos/drachmann/327122302/sizes/z/in/photostream/>



# Review Lenses – Building Your Team

---

## Teachers/content specialists

- Quality and alignment to state learning standards

## Technology

- Delivery platforms, access, and security considerations

## Curriculum

## Specialist/Administration

- Assess the needs for successful implementation of the instructional material at scale



# How to Evaluate Quality

CCSS Worksheet

IMET Rubric

EQuIP Rubrics

Achieve OER Rubrics

Reviewers Comments

Developer: \_\_\_\_\_ Curriculum/Unit Title: \_\_\_\_\_ Achieve OER Rubric Selected Modules \_\_\_\_\_ Reviewer ID: \_\_\_\_\_

**Rubric II: Quality of Explanation of the Subject Matter**

This rubric is applied to objects designed to explain subject matter. It is used to rate how thoroughly the subject matter is explained or otherwise revealed in the object. Teachers might use this object with a whole class, a small group, or an individual student. Students might use the object to self-tutor. For objects that are primarily intended for teacher use, the rubric is applied to the explanation of the subject matter not to the planning instructions for the teacher.

3: An object is rated superior for explanation of subject matter only if all of the following are true:

- The object provides comprehensive information so effectively that the target audience should be able to understand the subject matter.
- The object connects important associated concepts within the subject matter. For example, a lesson on multi-digit addition makes connections with place value, rather than simply showing how to add multi-digit numbers. Or a lesson designed to analyze how an author develops ideas across extended text would make connections among the various developmental steps and the various purposes the author has for the text.
- The object does not need to be augmented with additional explanation or materials.
- The main ideas of the subject matter addressed in the object are clearly identified for the learner.

2: An object is rated strong for explanation of subject matter if it explains the subject matter in a way that makes skills, procedures, concepts, and/or information understandable. It falls short of superior in that it does not make connections among important associated concepts within the subject matter. For example, a lesson on multi-digit addition may focus on the procedure and fail to connect it with place value.

1: An object is rated limited for explanation of subject matter if it explains the subject matter correctly but in a limited way. This cursory treatment of the content is not sufficiently developed for a first-time learner of the content. The explanations are not thorough and would likely serve as a review for most learners.

0: An object is rated very weak or no value for explanation of subject matter if its explanations are confusing or contain errors. There is little likelihood that this object will contribute to understanding.

NA: This rubric is not applicable (N/A) for an object that is not designed to explain subject matter, for example, a sheet of mathematical formulae or a map. It may be possible to apply the object in some way that aids a learner's understanding, but that is beyond any obvious or described purpose of the object.

Summary of Observations and Suggestions for Improvement:

Rating:  3  2  1  0  NA

Rubric developed by [Achieve](#)  
View Creative Commons Attribution 3.0 Unported License at <https://creativecommons.org/licenses/by/3.0/>



# Explore Existing OER

---

## **engage ny**

K-12 open curriculum in math and ELA

<https://www.engageny.org/common-core-curriculum>

**engage<sup>ny</sup>**

Our Students. Their Moment.

## **Utah State Office of Education**

Open science and math textbooks

<http://www.uen.org/oer/>

 **Utah** STATE OFFICE OF **Education**

## **Georgia Virtual Learning**

Selection of open online courses

<http://www.gavirtualllearning.org/>

**GEORGIA**  
VIRTUAL LEARNING  
GEORGIA DEPARTMENT OF EDUCATION



# Explore Existing OER

---

## CK-12

6-12 open curriculum in math and science

<http://www.ck12.org/teacher/>



## OER Commons

OER Repository

<https://www.oercommons.org/>



## Curriki

OER Repository

<http://www.curriki.org/>



# Access existing OER Reviews

## Washington OER Project



@waOSPI\_OER



[barbara.soots@k12.wa.us](mailto:barbara.soots@k12.wa.us)

Help educators select high quality materials

Provide information for materials adoptions

Identify gaps in Common Core alignment



# Washington OER Project

## OER Review Results

**OPEN EDUCATIONAL RESOURCES REVIEW**

As a part of the legislative mandate to identify and develop a library of openly licensed courseware aligned with the Common Core State Standards (CCSS), the Office of Superintendent of Public Instruction in Washington conducted a review of OER in Spring 2013. Full course secondary mathematics (Algebra 1/Integrated Math 1) and 11th - 12th grade English Language Arts units with an emphasis on American Literature were reviewed. The review process made use of existing review instruments designed to gauge alignment with the CCSS. The results from this review will be an extremely valuable tool as educators and content developers tap into the most powerful feature of OER – the ability to freely adapt and redistribute materials

OFFICE OF THE SUPERINTENDENT OF PUBLIC INSTRUCTION

Digital Learning Department  
July 2013

<u>To Kill a Mockingbird: A Historical Perspective</u> (Reviewed Spring 2014) Library of Congress/Kathleen Prody & Nicolet Whearty	-	■■■	■■
<u>Weapons of the Spirit</u> (Reviewed Spring 2014) Student Achievement Partners/Los Angeles School District	-	■■■	■■

### GEOMETRY RESOURCES

Resource	PC/IM	EQ	AO
<u>CK-12 Geometry Concepts</u> (Reviewed Spring 2014) CK-12 Foundation/Kathryn Dirga, Lori Jordan	■■■	■■■	■■■
<u>CK-12 Geometry Honors Concepts</u> (Reviewed Spring 2014) CK-12 Foundation/Kaitlyn Spong	■■■	■■■	■■■
<u>Curriki Geometry</u> (Reviewed Spring 2014) Curriki	■■■■	■■■	■■
<u>New York State Common Core Mathematics Curriculum: Geometry (Module 1)</u> (Reviewed Spring 2014) EngageNY/Common Core	■■■	■■■	■■
<u>The Saylor Foundation K-12 Geometry Course</u> (Reviewed Spring 2014) The Saylor Foundation/ Kate Cottrell	■■■	■■■	■■■

<http://digitalllearning.k12.wa.us/oer/library/>



# Remixing or Developing OER

---



CC BY NC Create by doremigirl <http://www.flickr.com/photos/doremigirl/>

1. Make sure licenses from various sources are compatible
2. Confirm that proper attribution is in place
3. Identify copyright holder and make sure you have permission to apply an open license
4. Understand license options and rational for choosing one over the other



# Applying an Open License

## License

**HOW CAN I LICENSE MY WORK?**

There is no registration to use the Creative Commons licenses. Licensing a work is as simple as selecting which of the six licenses best meets your goals, and then marking your work in some way so that others know that you have chosen to release the work under the terms of that license.

Our license-choosing tool can help you select the right license.

[Choose a License](#)

[creativecommons.org](http://creativecommons.org)

### License Features

Your choices on this panel will update the other panels on this page.

**Allow modifications of your work?**

Yes  No

Yes, as long as others share alike

**Allow commercial uses of your work?**

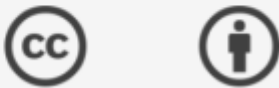
Yes  No

**License Jurisdiction:**


International

### Selected License

## Attribution 3.0 Unported



This is a Free Culture License!



### Help others attribute you!

This part is optional, but filling it out will add machine-readable metadata to the suggested HTML!

Title of work

Attribute work to name

Attribute work to URL

Source work URL

More permissions URL

Format of work

License mark

### Have a web page?



This work is licensed under a [Creative Commons Attribution 3.0 Unported License](#).

**Copy this code to let your visitors know!**

```
<a rel="license"
href="http://creativecommons.org/licenses/by/3.0/deed.en_US" ></a><br />This work is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/3.0/deed.en
```

Normal Icon  Compact Icon



# Washington OER Project: Theory into Practice

## OER Grants

Build on OER Review

Support district adaptation and implementation of OER aligned with state standards

All content created or modified, licensed CC BY

Provide case studies for OER implementation



Photo by kenteegardin - Creative Commons Attribution-ShareAlike License  
<http://www.flickr.com/photos/26373139@N08>



# Washington OER Project: Theory into Practice

## OER Summits



**OPEN EDUCATIONAL RESOURCES**

**DISTRICT SUMMIT**

**November 30, 2015**

**Northwest Educational Service District 189**

**1601 R Avenue. Anacortes, WA**

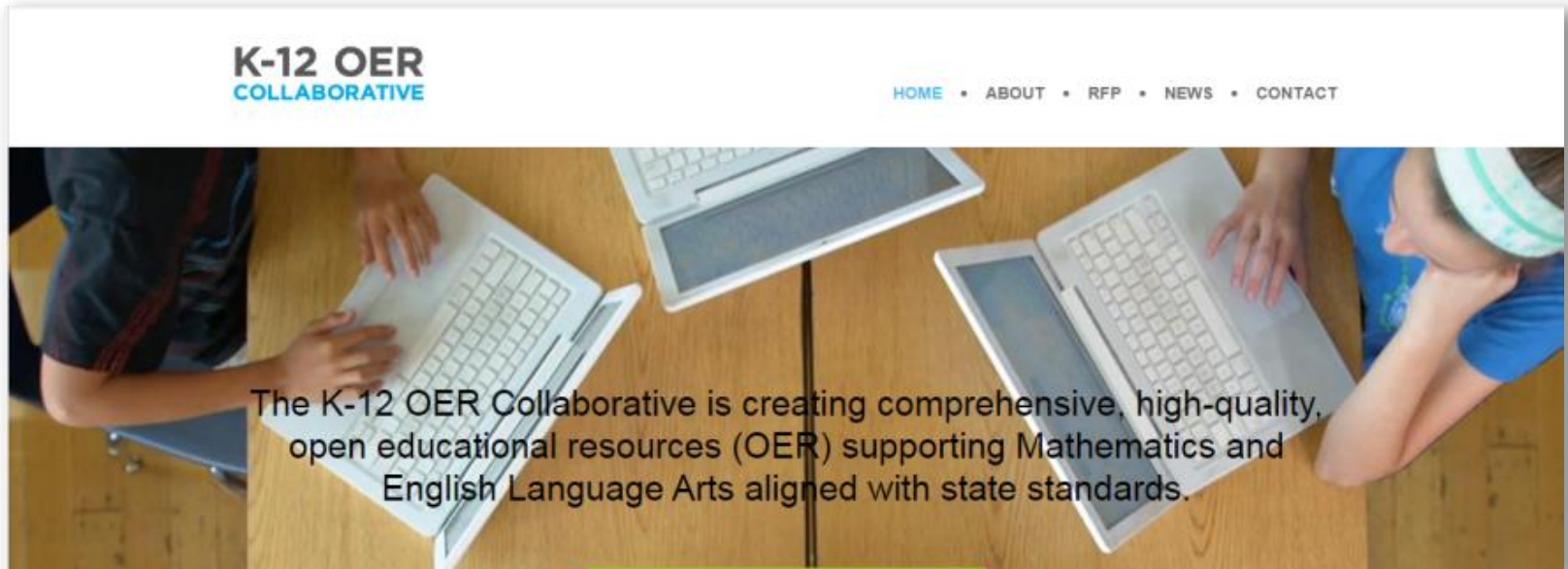
**8:30 am – 3:30 pm**

<https://oersummitwest2015.eventbrite.com>



# OER Work Underway – Beyond Washington

## K–12 OER Collaborative



Arizona

California

Georgia

Hawaii

Idaho

Minnesota

Nevada

North Carolina

Oregon

Utah

Washington

Wisconsin

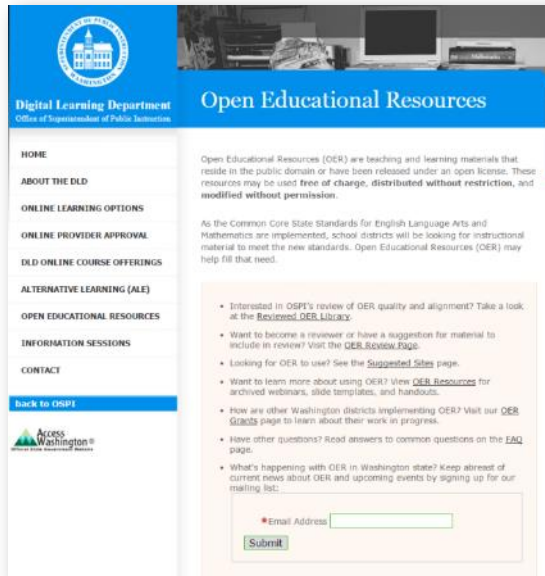
[www.k12oercollaborative.org](http://www.k12oercollaborative.org)

[info@k12oercollaborative.org](mailto:info@k12oercollaborative.org)

[@k12oer](https://twitter.com/k12oer)



# Keep in Touch with the OER Project



<http://digitallearning.k12.wa.us/oer>



[@waOSPI\\_OER](https://twitter.com/waOSPI_OER)



[barbara.soots@k12.wa.us](mailto:barbara.soots@k12.wa.us)



<http://www.k12.wa.us/>



Except where otherwise noted, this work is licensed under <http://creativecommons.org/licenses/by/4.0/>