



Going Open!

Updates on OER and the K-12 OER Project

Download slides: bit.ly/30SWqN3

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

Goals



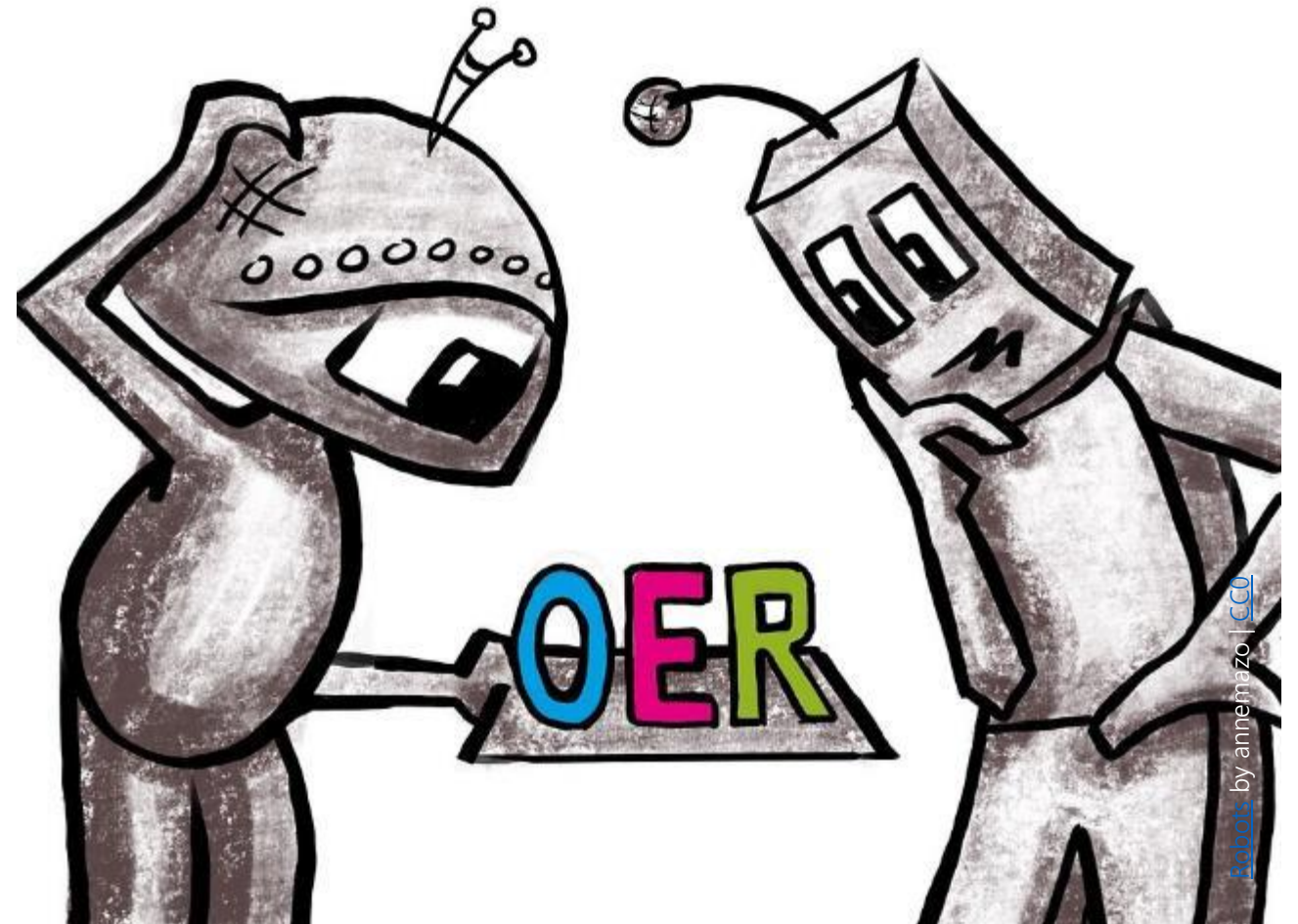
- Understand some basics about OER and the current landscape.
- Discover some exemplar sources for OER.
- Understand the purpose and organization of the OER Commons Washington Hub.
- Explore resources from statewide educators.
- What's on the horizon for OER

Photo by [Samuel Zeller](#) on [Unsplash](#)



What are OER?

- 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**.



OER are NOT...

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

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

One type of resource
OER can be graphics, video, music, lessons, simulations, full courses, etc.



Photo by [ravpixel](#) on [Unsplash](#)





OER = Free + Permissions

The 5 Rs:

Retain

Reuse

Remix

Revise

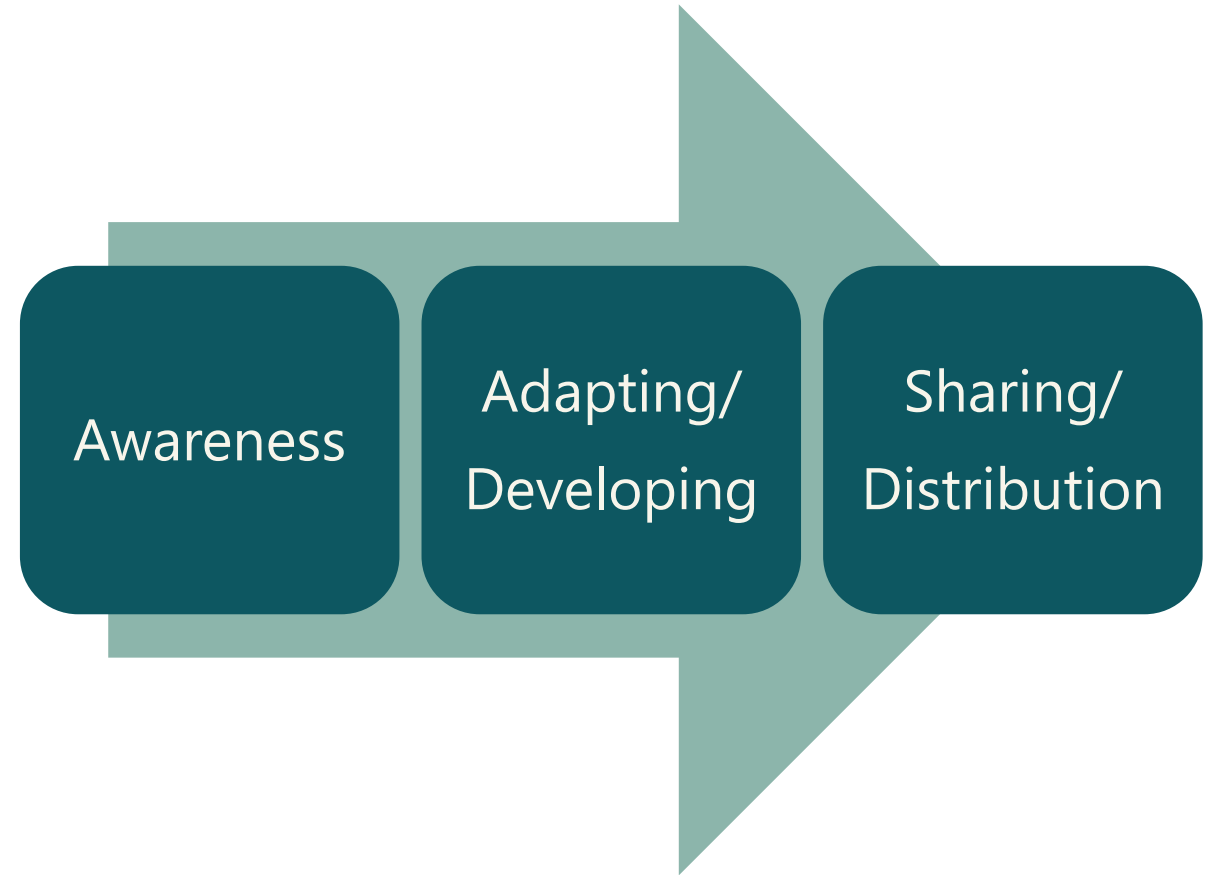
Redistribute

Icons from [OER Guidance for Schools](#), commissioned by Leicester City Council, produced by Björn Haßler, Helen Neo and Josie Fraser. Available under [Creative Commons Attribution 4.0](#).



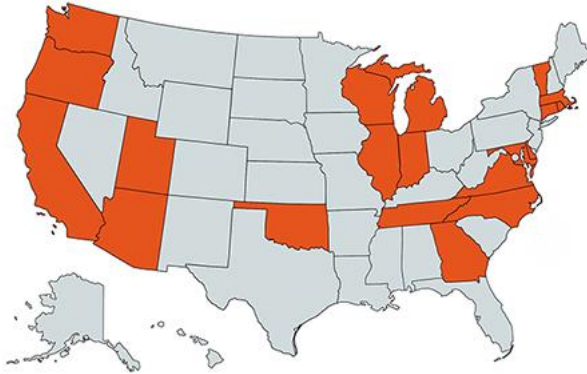
Washington K-12 OER Project

- **OER Awareness and Advocacy**
increasing district awareness of OER and providing resources to locate, evaluate, adopt, and implement OER.
- **OER Review and Development**
working with districts to develop full-course or unit level OER aligned to learning standards.
- **OER Library Curation**
maintaining a library of resources that have been developed by OSPI grantees or collaborators and aligned to Washington K-12 Learning Standards.



[Washington K-12 OER Project](#)

#GoOpen States



Arizona
California
Connecticut
Delaware
Georgia
Illinois
Indiana
Maryland
Massachusetts
Michigan

North Carolina
Oklahoma
Oregon
Rhode Island
Tennessee
Utah
Vermont
Virginia
Wisconsin
Washington

[#GoOpen](#)

Why should OER be on my radar?



Photo by [Stellan Johansson](#) on [Unsplash](#)



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OER enable cost shifts

With OER, content acquisition costs can be reduced, allowing schools to shift funds to other critical areas to support learning and teaching.



Shift by [Nick Aldwin](#) | CC BY NC



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Tumwater School District



Resources:

Mathematics Vision Project

Open Up Resources/Illustrative
Mathematics

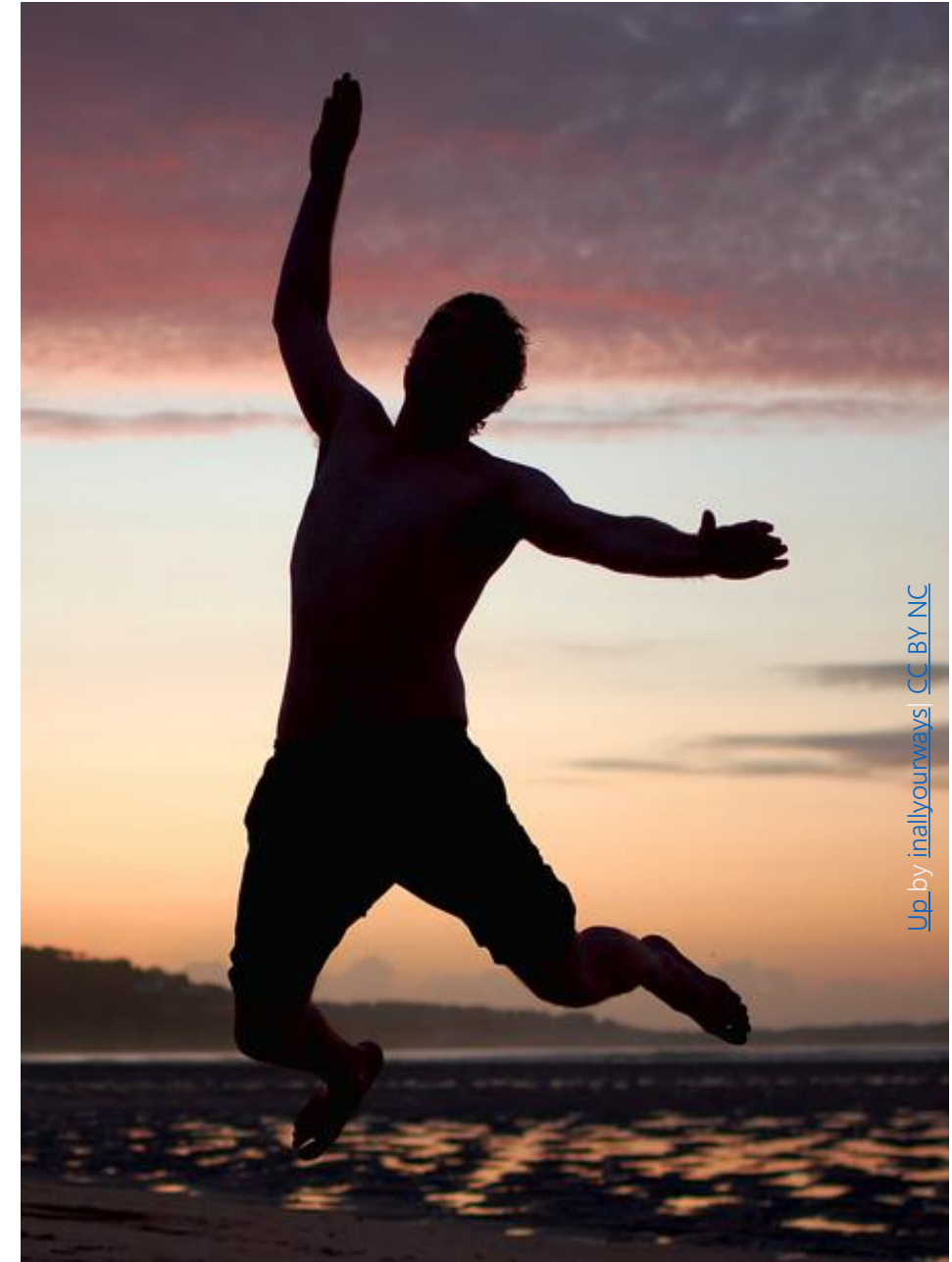
With the funds the district normally would have spent on textbooks, officials are giving teachers release time from class and paying them for extra hours so they can observe and learn from each other.

David Parascand
Math TOSA



OER empower districts

OER empower districts and teachers as creative professionals by giving them the ability to adapt and customize learning materials to meet the needs of their students.



Up by inallyourways | CC BY NC



Example of adaptation with OER

State We're In: Washington



Economic Change

In 1900, about half a million people were counted in the census in Washington. (A census is a count of how many people live here, conducted by the U.S. government once every ten years.) In the 2010 census, nearly seven million people were counted (6,897,012 people, to be exact). That's a lot of people – and a lot of change for our state.

Imagine what it was like to live in Washington in the year 1900: People traveled on foot, on horses, on trains, or on boats, because cars were very rare



经济变化

1900年，华盛顿州人口普查大约有50万人。（人口普查由美国政府每十年做一次，就是数一数有多少人住在这里。）2010年的人口普查显示有将近700万人（准确地说，是6,897,012人）。真是很多人---华盛顿州真是发生了很多的变化。

想象一下，1900年生活在华盛顿州是什么样子：人们出行要靠走路、骑马、坐火车或坐船，因为那时候汽车很少，



Chapter 4 The State We're In Washington
1900-2000: A Century of Change

Teacher Guide

General Overview

Chapter 4: A Century of Change focuses on the significant amount of change the state of Washington experienced from 1900 to 2000. The tasks below may be implemented separately or together to guide students toward a deeper understanding of the content therein and to develop important social studies skills.

Enduring Understanding

Washington changed a great deal in many different ways in the 20th Century (culturally, economically, politically, environmentally and ecologically).

Supporting Questions

Students consider these questions - finding and using evidence to support the Enduring Understanding.

- How have labor unions impacted our state?
- How has technology impacted our state?
- What are the most significant changes that our state has encountered?
- Can Washington balance a healthy natural environment and a successful economy in our state?
- How have human activities impacted our state over time?

Learning Targets

Students will be able to...

- explain how labor unions can impact our state (E4.6-8.3).
- explain how technology can impact our state (H1.6-8.5).
- compare various changes that have happened in our state over the last 100 years to determine the significance (SS5.4.6-8.1).
- use evidence to support how Washington can balance a healthy natural environment and a successful economy (SS5.4.6-8.1).
- determine how humans impact the environment of our state (G2.6-8.3).

Tasks

1. [Launch](#)
2. [Focused Notes](#)
3. [Text-Dependent Questions](#)
4. [Focused Inquiry](#)



OER promote equity

All students can have access to high quality learning materials that have the most up-to-date and relevant content because OER can be freely copied and distributed to anyone.



Photo by Wokandapix | CC 0



Some of the highest-rated core instructional materials available today are openly licensed



OER are on a steady climb

1.4 BILLION

CREATIVE COMMONS LICENSED WORKS



[Creative Commons: 2017
State of the Commons](#)



OER and the Every Student Succeeds Act

Title IV grant funds may support district projects aimed at:

“discovering, adapting, and sharing openly licensed high-quality resources”

This option is embedded within the Effective Use of Technology section



OER promote good digital citizenship

Open licenses allow you to **legally** share content via your favorite delivery platform.



How do I know a resource is open?



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You are free to:

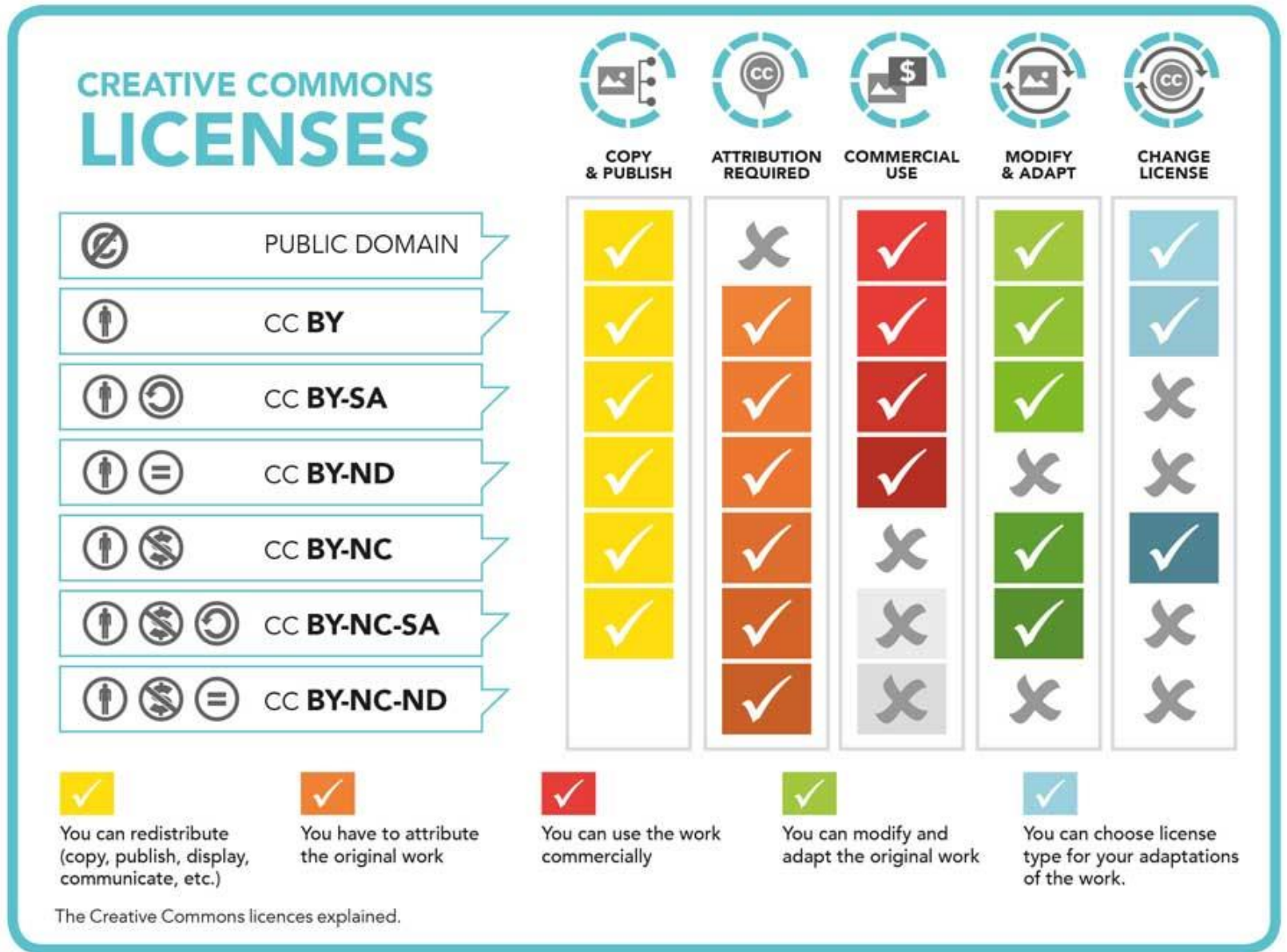
Share — copy and redistribute the material in any medium or format

Adapt — remix, transform, and build upon the material for any purpose, even commercially.

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Creative Commons open license types



Where do I find OER?

*...and how do I
know it's good?*



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How will you use OER?

Using OER as a supplemental resource

Adopting an existing OER as core instructional material

Adapting OER to meet district teacher and student needs

Curating or creating OER to develop “home grown” materials



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Determining your district need and capacity



OPEN EDUCATIONAL RESOURCES

Considerations for School Districts

OPEN EDUCATIONAL RESOURCES

Open Educational Resources (OER) are teaching and learning materials that are freely available that can be downloaded, edited and shared to better serve all students. OER include all kinds of content such as textbooks, lesson plans, assignments, games, and other educational materials. They can be produced in any medium: paper-based text, video, audio, or computer-based multimedia.

KEY STEPS AND CONSIDERATIONS WHEN ADOPTING OER

Introduce OER to stakeholders

Engage local school and district administrators, curriculum specialists, technology specialists, school boards, teachers, and parents in the discussion about OER to increase awareness and clarify goals:

- Save money on content acquisition to enable shifting funds to other critical areas
- Adopt more current, updateable instructional material
- Fill curricular gaps in order to meet Common Core standards
- Adapt resources to localize content or personalize learning
- Provide equitable access to quality instructional materials
- Leverage technology and provide digital content to students

Resources:

[Washington Open Educational Resources Project Resource Page](#)

[Why Open Education Matters Contest Winners](#) (video)

[Open Education and the Future](#) (video, David Wiley 2010)

[OER and Collaborative Content Development](#) (INACOL 2013)

[State of the States: Open Educational Resources in K-12 Education](#) (CCSSO 2015)



#GoOpen District Launch Packet

Across the country, districts are choosing to #GoOpen and transitioning to the use of openly licensed educational resources to improve student learning in their schools. This resource is designed for districts that have decided to implement a systematic approach to incorporating openly licensed educational resources into their curriculum by becoming a #GoOpen District.

Download

[Key Considerations for School Districts](#)

[#GoOpen](#)



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OER Landscape

Third-party developer

Lessons,
Units,
Videos, etc.

Variety of sources, content areas, and grades

Home-grown

Curated collections

Work often being done on online platforms (LMS, repository, etc.)

Full course materials

Smaller range of content
Typically grant/foundation funded work (initially)

Full course materials

Wider array of content. Often, more specialized courses or more limited grade band range.

Supplemental instructional material

Core instructional material



Internet Search Engines

Use Advanced Search



language:	any language
region:	any region
last update:	anytime
site or domain:	
terms appearing:	anywhere in the page
SafeSearch:	Show most relevant results
reading level:	no reading level displayed
file type:	any format
usage rights:	not filtered by license
	not filtered by license
	free to use or share
	free to use or share, even commercially
You can also...	free to use share or modify
	free to use, share or modify, even commercially

Find pages that are similar to, [Crash to, & Cris...](#)



OER Repositories



Mason OER Metafinder



OER Commons




OER Commons is a public digital library of open educational resources.

Search by content area, grade band, standard, or material type.



OER Commons Resource Card



Developing a Growth Mindset
★★★★★


[View Resource](#) [Save](#) [Remix](#) [Share](#) [User](#)

👁 0 📄 1 💬 0

Description

Overview: Students explore the concept of a growth mindset through readings and videos. They write annotate texts, discuss, write reflections, create graphics as they explore and examine the topic. Finally they form and express their own voice in an essay.

Subject: Arts and Humanities
Level: Community College / Lower Division
Material Type: Module
Author: Molly Berger, Theresa Hernandez, Hank Wyborney
Date Added: 08/23/2019

License: Creative Commons Attribution-NonCommercial 4.0 

Language: English
Media Format: Downloadable docs

Standards [Align](#)

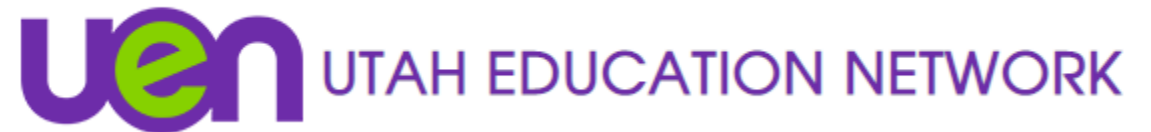
◀ 1 2 ▶

CCSS.ELA-Literacy.W.11-12.1b
Common Core State Standards
English Language Arts
Grades 11-12, Writing

Cluster: Text Types and Purposes.
Standard: Develop claim(s) and counterclaims fairly and thoroughly, supplying the most relevant evidence for each while pointing out the strengths and limitations of both in a manner that anticipates the audience's knowledge level, concerns, values, and possible biases.
Degree of Alignment: Not Rated (0 users)

Each resource entry gives a description and information about the license type and permissions.

Full Course OER



New Resource: OER Core Instructional Material Options

OER for Adoption Consideration

Mathematics, English Language Arts, Science



Documents Include:

- links to access materials
- delivery options
- professional learning options
- reviews if available

Grade Band	Developer <i>org. or district</i>	Obtain Materials <i>fees involved for different delivery platforms</i>	EdReports Review <i>if available</i>	Comments
PK-12	Great Minds Eureka Math for EngageNY	EngageNY (2015) Great Minds (2015)	Eureka Math K-8 (2015) Eureka Math 9-12 (2014)	<i>Delivery options: PDF download, print purchase, digital platform</i> <i>Professional learning: Great Minds Teacher Resource Pack EngageNY Professional Development Library</i>
K-5	San Francisco Unified School District	SFUD Elementary Math Portals		<i>Delivery options: Google drive documents</i> <i>Professional learning: SFUD Math Teaching Toolkit</i>
3-12	Match Education	Match Fishtank Mathematics		<i>Delivery options: online viewing, PDF download</i> <i>Professional learning: Match Fishtank Teacher Tools</i>
6-8	Illustrative Mathematics (IM)	Kendall Hunt Open Up Resources Learn Zillion McGraw Hill	Open Up Resources (2017) Learn Zillion IM 6-8 (2018)	<i>Delivery options: online viewing, PDF download, digital platform, LMS integration, print purchase</i> <i>Professional learning: Summer Academies via Open Up Resources IM Certified Professional Learning</i>

Library, Set Square, and Physics icons by Vectors_Market | Flaticon [Basic License](#)

OER Commons

Curriki

Canvas Commons

Teacher Advisor

Google

Edmoto Spotlight

Amazon Inspire

Smarter Balanced Digital Library

OpenEd

State Repositories

Individual Developers

Better Lesson

Share My Lesson

Read Works

PBS Learning Media

This is only a small portion of the sites, repositories, and search engines out there that educators will use to find instructional materials of ALL license types.

- Know your need
- Search critically
- Review with recognized rubrics for the evaluation of instructional materials
- Understand your level of permitted use



Washington Hub on OER Commons



Harnessing the potential of OER to share resources widely - promoting equitable access to standards-aligned, quality instructional materials.

Washington Hub on OER Commons

- reviewed courses and units
- developed by OSPI grantees or collaborators
- aligned to Washington K-12 Learning Standards.



Resource Highlights: Social Studies Group



Washington Social Studies

This group, curated by OSPI, contains resources created by and for educators - including instructional materials, review rubrics, and other useful links.

A screenshot of the OER Commons Washington Hub interface. The page title is "All Group Resources". Below it, the breadcrumb path is "All resources in Grades 9-12 > All resources in Civics Model Courses(3)". On the left, a "Folders" sidebar lists: "All Grades (8)", "Grades .K-5 (6)", "Grades 6-8 (10)", "Grades 9-12 (16)", "Civics Model Courses (3)" (highlighted with a blue bar), and "Rubrics and Frameworks (1)". The main content area has a search bar with "Search Shared Items", a "Per page" dropdown set to "20", and a "Filter by" dropdown set to "All Resources". Three resource cards are displayed, each with a thumbnail, title, description, material type, and authors. The first card is "AP U.S. Government & Politics" (Full Course) by Knowledge in Action and University of Washington. The second is "Civics Course Resources" (Teaching/Learning Strategy) by Barbara Soots and Walter Parker. The third is "Puyallup School District Civics OER" (Full Course, Module, Unit of Study) by Barbara Soots, Tracy Pitzer, and Megan Turner.

Resource Highlights: Clime Time Group



Clime Time

This group includes teacher professional development and instructional materials developed under this grant funds made available by the State of Washington legislature.

All Group Resources

All resources in Community Science(7)

Select All Search Shared Items Per page 20

Folders + New

- Community Science (7)
- Edited Entries (1)
- Grades 3-5 (4)
- Grades 6-8 (5)
- Grades 9-12 (1)
- Pre K - 2 (2)
- Professional Learning (8)
- Resource Development Guidance (3)

NGSS in Action: Science in the Schoolyard (Workshop 1 of 4) Published
(View Complete Item Description)
Material Type: Lesson Plan
Authors: Emma Pesis, Brad Street

NGSS in Action: Urban Water Systems (Workshop 4 of 4) Published
(View Complete Item Description)
Material Type: Lesson Plan
Authors: Emma Pesis, Brad Street

NGSS in Action: Engineering in your Community (Workshop 3 of 4) Published
(View Complete Item Description)
Material Type: Lesson Plan
Authors: Emma Pesis, Brad Street

NGSS in Action: Community Asset Mapping with Cross-Cutting Concepts (Workshop 2 of 4) Published
(View Complete Item Description)
Material Type: Lesson Plan
Authors: Emma Pesis, Brad Street



Check out some resources on the Washington Hub

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



The Detective by Paurian - CC BY



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[OER Commons Washington Hub](https://www.oercommons.org/hubs/washington)

How to include OER in adoption process?



Course Design and Instructional Materials Toolkit

This document models a cyclical strategy for the regular review of courses based on district needs and provides links to state policies, guiding questions, useful resources, and district examples, that will help define best practices for considering instructional materials.

Download: [Entire Manual](#)

By Sections:

- [Introduction](#)
- [Identify Parameters: Laws, Policies, Standards, and Metrics](#)
- [Analyze Existing Course: Data and Stakeholder Needs](#)
- [Review and Select Instructional Materials: Research, Process, Tools, and Guidance](#)
- [Implement Course and Assess Effectiveness: Assessment and Ongoing Implementation Strategies](#)
- [Appendix A: Mathematics Core Instructional Materials Adoption](#)



[Instructional Material Selection and Adoption Guidance](#)



Who Else Has Adopted OER?

Content Area	Course	Grade Band	OER or District Curated*	Districts Reporting	Percent
ELA	Reading	Elementary	21	73	29%
ELA	Writing	Elementary	14	72	19%
ELA	ELA	Middle	5	52	10%
ELA	ELA	High	7	49	14%
Mathematics	Mathematics	Elementary	20	83	24%
Mathematics	Mathematics	Middle	19	68	28%
Mathematics	Integrated	High	1	5	20%
Mathematics	Algebra 1	High	5	59	8%
Mathematics	Geometry	High	5	59	8%
Mathematics	Algebra 2	High	5	59	8%

Results from 2017 OSPI pilot survey of 93 school districts.



Look out for...



Photo by [Marten Newhall](#) on [Unsplash](#)



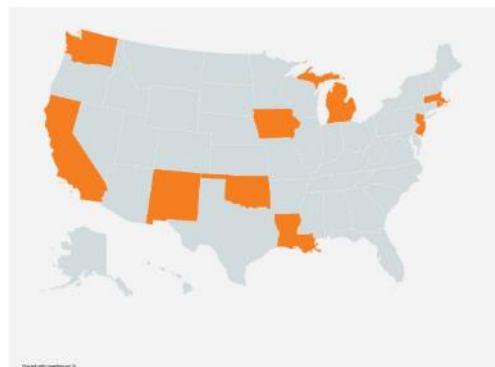
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Just Released OER Units from OpenSciEd

OpenSciEd aims to create a set of exemplary science instructional materials that are:

- designed and aligned to the Framework and NGSS;
- based on research
- developed with educators;
- improved over time.

While starting at the middle school level, the goal is to create an entire science curriculum from K-12.



"By States for States"

Ten partner states volunteered to join this effort. These states provide the vision for our work by collaborating on a scope and sequence, design specifications, and instructional model. The OpenSciEd partner states recruited over 250 field test teachers from their schools and districts. These states and teachers have committed the funds and time for professional development, teaching the field test units, and participation in extensive data collection to inform revisions. Their voice is carried throughout the OpenSciEd materials.

California
Louisiana
Michigan
New Mexico
Rhode Island

Iowa
Massachusetts
New Jersey
Oklahoma
Washington



[OpenSciEd](https://www.opensci.ed)



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More granting agencies requiring open licensing



**FORD
FOUNDATION**



**BILL & MELINDA
GATES** *foundation*



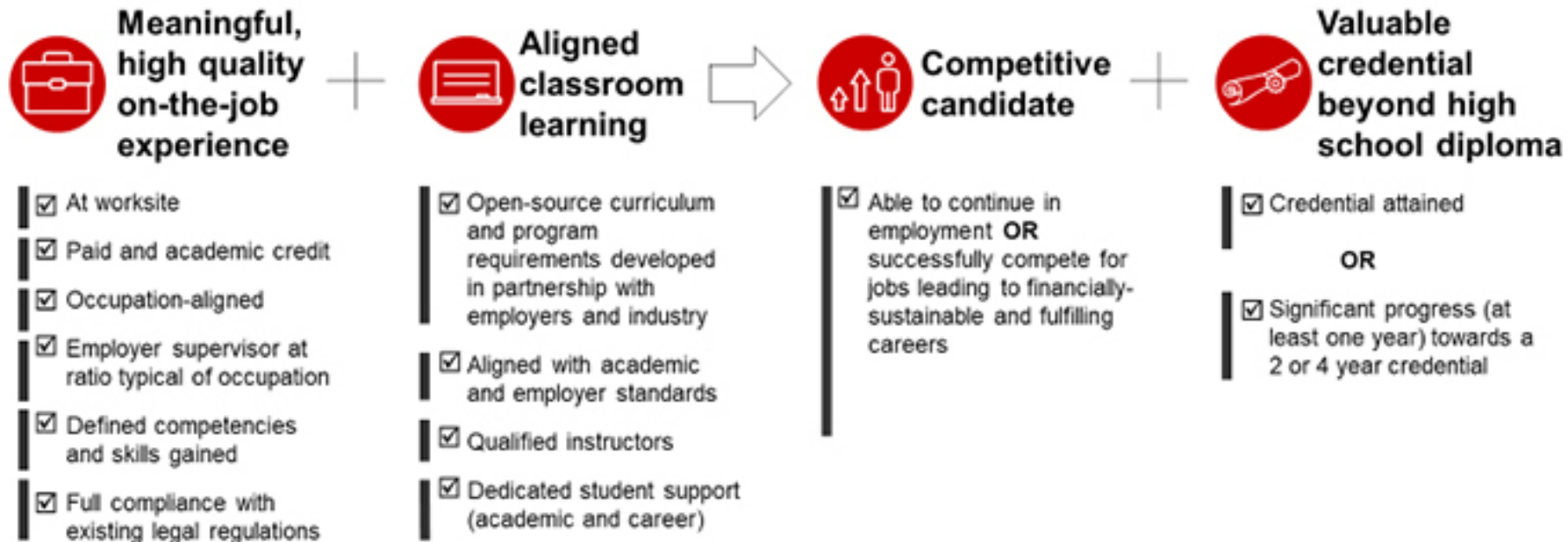
WILLIAM + FLORA
**Hewlett
Foundation**



From the SBCTC Career Launch Site

Mandatory Criteria

Career Launch Programs: Positioning young adults for promising careers



OER Project Grants – 2020-2021

TARGET AREAS OF FOCUS

In order to be considered for funding, proposals must address one of the following areas:

Complete the development/adaptation of openly-licensed **core instructional materials** aligned to state learning standards – particularly in underrepresented content areas.

OR

Complete the development/adaptation of openly licensed **unit-level supplemental instructional materials** aligned to state learning standards and focused on content integration.

EXPECTED RFP RELEASE DATE: EARLY APRIL 2020



Learn More about OER



OPEN WASHINGTON
Open Educational Resources Network

OER Policy Videos
Open Attribution Builder
FAQ

Module 1:
Introduction

Greetings!

Welcome to *How to use Open Educational Resources*, a self-paced workshop.

- Module 1: Introduction
- Module 2: Understanding OER
- Module 3: Open License
- Module 4: Creative Commons
- Module 5: Finding OER
- Module 6: Sharing OER
- Module 7: Public Domain
- Module 8: Accessibility



What is OER?

0:03 / 1:39



Learn More about OER - 2



MAKING CONNECTIONS PREK-12 OER IN PRACTICE

Visit [New America's In Depth website](#) to learn more about who is using OER, where educators can find OER, and how to access professional learning resources.



WATCH LEADERS' LESSONS LEARNED

In the video playlist, "[District and State Leaders Discuss Lessons Learned from OER Implementation](#)", ISTE and New America interviewed district and state leaders, who shared key takeaways from their experiences with using PK-12 OER.



Contact Us!



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barbara.soots@k12.wa.us

[OER Project Website](#)



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