



2019-2020 Open Educational Resources Project Grant Awards

Open Educational Resources (OER) are teaching and learning materials that reside in the public domain or have been released under an open license. These resources may be freely used, edited, and shared to better serve all students.

As more Washington districts develop or adapt OER, we have a tremendous opportunity to:

- collaborate on resource adaptation and development;
- champion effective implementation of resources and define best practices; and
- share developed resources via our [OER Commons Washington Hub](#).

This grant program is in support of that goal. Below are the recipients of the OSPI OER Project Grant for the 2019–2020 school year.

Conceptual Physics Course Development	Oak Harbor Public Schools
Dual Language Immersion Social Studies OER Project	Seattle Public Schools
Elementary Science Units	Sumner-Bonney Lake School District
Regional STEM Instructional Materials Collaborative	Educational Service District 112

CONCEPTUAL PHYSICS COURSE DEVELOPMENT

Oak Harbor Public Schools



The Conceptual Physics Course Development, Phase Two proposal intends to create a new core class that a significant number of 11th graders would take as the last class of a three-year progression of classes: biology in 9th, conceptual chemistry in 10th, and conceptual physics in 11th.

The creation of a conceptual chemistry class and a conceptual physics class for general education students was recommended by our K-12 science curriculum review team. The new conceptual physics class will be primarily based on CK-12

OER materials and Next Generation Science Standard bundles. This project will bring together district teachers to collectively vet, adapt, differentiate, select, and supplement the core instructional material. We believe that the recommended course progression and the general education versions of chemistry and physics will best prepare all students for success on the Washington Comprehensive Assessment of Science. The resulting course will be openly licensed and accessible to all.

[Oak Harbor District Group on OER Commons Washington Hub](#)

DUAL LANGUAGE IMMERSION SOCIAL STUDIES OER PROJECT

Seattle Public Schools



The Seattle Schools Dual Language Immersion Social Studies OER project aims to identify, then translate and adapt, as needed, resources for teaching US History, Washington State History, including Since Time Immemorial, World Geography, and World History 3 at the middle and high school level in Spanish, Mandarin, and Japanese Dual Language Immersion programs.

Seattle currently teaches Social Studies content in Spanish and Mandarin grades 6-8 in two middle schools, with the possibility of adding a third, impacting several hundred students. The high school Japanese and Spanish Dual Language Immersion pathway program is launching in September 2019 and will offer World History 3 taught in Spanish and Japanese.

The OER resources would come primarily from existing OER resources in English that have copyright permission for adaptation. They would be aligned to the state and district curriculum frameworks for Social Studies and would include use of OSPI-developed Assessments for each unit in the curriculum. The adapted content materials could also be used to support ELL-qualified students in those languages at the middle or high school level in any school to have access to academic content in their languages, beyond what they may be able to read in English. Some materials may be helpful for instructors to differentiate instruction for students who read above standard (in elementary grades) or below standard (in high school).

[Seattle Public Schools Group on OER Commons Washington Hub](#)

ELEMENTARY SCIENCE UNITS

Sumner-Bonney Lake School District



Sumner-Bonney Lake School district is working to employ three-dimensional teaching in science in alignment with the Washington State Learning Standards. In an effort to help students make cross-curricular connections, we will be adapting three Ambitious Science Teaching units for grades 3-5. Our goal is to modify and align these materials with thematic connections to our Core Knowledge Language Arts curriculum.

The Ambitious Science Teaching Units selected for adaptation and sharing are:

- 3rd grade - Orcas (life science)
- 4th grade - electrical circuits (physical science)
- 5th grade - Motion and Design (Physical Science)

Modified units will be piloted in 20-30 classrooms during the 2019-20 school year with full implementation for the 2020-21 school year. We are rolling out these curricular materials with a race-equity lens and attention to climate change.

REGIONAL STEM INSTRUCTIONAL MATERIALS COLLABORATIVE

Educational Service District 112



There is a need for high-quality instructional materials to support implementation of the Next Generation Science Standards (NGSS). This proposal seeks to continue the work of the Regional Instructional Materials OER Collaborative that has driven STEM curriculum development in our region since 2016. Our target audience, projected materials, and collaborators (districts/teachers)

have continued to change based on the needs presented and identified during each school year.

This year's focus will be to develop three NGSS aligned storyline units for 5th grade, to work on three kindergarten storylines, and to complete the full scope of development for second grade by completing the remaining 2nd grade unit. A team of 2-3 teachers will be convened to aid in the brainstorming and development of each of the four units, which will then be drafted by the Integrated Curriculum Specialist (ICS), reviewed via EQuIP by teachers and ESD staff and partners, and finally, formatted and published by ESD 112's communications department.

[STEM Instructional Materials Group Website](#)

[STEM Instructional Materials Group on OER Commons Washington Hub](#)

FOR MORE INFORMATION

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