

Open Math–Open Resources: Engage Adult Learners for 21st Century Skills

Summary and Objectives

Audience: Adult Basic Education (ABE) math instructors

Summary: “Open Math” will help math teachers find quality Open Educational Resources (OER) for the Adult Education (AE) classroom, evaluate them, and assess their effectiveness in meeting learning objectives. It will also provide teachers with ideas and resources for instructional strategies to introduce and engage adult students in learning math.

Objectives:

- identify an OER for instruction that aligns with math standards (e.g., College and Career Readiness Standards for Adult Education);
- develop a list of learning goals expected from the OER selection;
- prepare a unit lesson plan using the TEAL Lesson Plan Builder;
- select an appropriate instructional strategy to incorporate an OER into math instruction; and
- evaluate student accomplishment and depth of content understanding using the OER in instruction and modify the lesson plan as needed.

Course Logistics

Format: Facilitated, asynchronous, online

Estimated Completion Time: 8 weeks for approximately 3 to 5 hours per week; 32 hours total

Prerequisite course: Open Your Classroom with Open Educational Resources

Expectations:

- complete the course assignments in a timely manner
- contribute to the online discussions through forums each week
- develop a lesson plan with OER for math instruction and share it with the other course participants
- complete the weekly check-ins and final course evaluation.

Download a Certificate of Completion upon successful completion of course requirements.

Course Topics

Welcome and getting started activities

- *Video:* Course navigation tutorial
- *Presentation:* Course overview
- *Forum:* Introduce yourself and tell what you want to do!
- *Quiz:* Knowledge check
- *Activity & Forum:* Remix and revise OER fact sheet

Introduction to using OER for instruction

- *Presentation:* Using OER for math instruction
- *Activity & Forum:* Value and limitations of OER in math instruction
- *Activity & Forum:* Align your vision for using OER to your practice

Approaches to integrating OER into instruction

- *Presentation:* Approaches to integrating OER into math instruction
- *Forum:* Reflection on integrating OER approaches
- *Activity & Forum:* Open math with multimedia OER

Setting goals for the instructional use of OER

- *Presentation:* Setting goals for the instructional use of OER
- *Activity & Forum:* Practice setting goals for lessons using OER
- *Activity & Wiki:* Open Explorer

Selecting OER for instruction

- *Presentation:* Selection of OER for math instruction

Planning rich instruction with OER

- *Presentation:* Planning rich instruction with OER
- *Activity & Wiki:* Resources to support student use of OER

Implementing a lesson using OER

- *Reading:* Instruction with OER
- *Activity & Forum:* Share draft lesson plan and reflect on planning process

Assessing student outcomes and evaluating instructional practice

- *Reading:* The value of student outcome data
- *Activity & Forum:* Final reflection and future changes

**For information on course availability,
contact the LINCS Professional Development Center at pdcenter@lincs.ed.gov**

<http://lincs.ed.gov>



Twitter: @LINCS_ED



LinkedIn: LINCS_ED group



YouTube: LincsEd