Open & Accessible: Improving STEM OER using an accessibility framework

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Welcome & Norms

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Norms
- State your name before speaking
- Use channels that work for you
- Consider adding your pronouns to your name
Outline

- Welcome & Norms
- STEM OER Accessibility Framework
  - Partners & Project
  - Design
- Using the framework to evaluate and remediate material
STEM OER Accessibility Framework
$y' = \sin x e^{\cos x}$
Accessibility

Legal definition

- Defined by the Office for Civil Rights (OCR), U.S. Department of Education.
- Ensures an individual with a disability has the same opportunities as an individual without a disability.

(Rehabilitation Act of 1973)

OER Accessibility

- Expands the legal definition
- Addresses diversity, equity, inclusion, access, and principles of open education
- Provides multiple options for a variety of people regardless of disability status.
Framework

- Perceivable
- Operable
- Understandable
- Robust

(CAST, 2018) (Education and Outreach Working Group, 2019).
Using the framework

- Open the STEM OER Accessibility Framework
- Tour together
Evaluating Resources

- Start with a small, familiar activity.
- Make a copy of the guide.
- Work through the guide with the resource.
  - Focus on evaluating the material.
Remediating Resources

- Start with the most impactful revisions.
- Reference the examples and resources.
- Build sustainable habits and an iterative approach.
- Know when to seek extra support.
Questions & Examples

- Determine the purpose
- Generate a textual equivalent

Figure 1. Family of solutions to the differential equation $y' = 2x$

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Resources

- STEM OER Accessibility Framework
- Image Accessibility in STEM
- WebAIM