iDigBio Resources as OER:
Implementation Considerations for Design, Use, and Assessment

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Why a “new vision”?

- NAEP math scores low for minority students (8th grade)
- STEM learning accessible to honors students (Californians Dedicated to Education Foundation, 2014)
- STEM learning is stovepiped (Volmert et al., 2013)
- ESSA: Competitive preference for STEM
- How to integrate STEM? (AIR, 2016)
How to Improve Learning?

1. Recruit more talented people;
2. Improve the qualifications of teachers entering or already in the profession;
3. Improve the instructional methods that are implemented in classrooms.
5. OER are shared instructional products

Hiebert & Morris, 2012; Morris & Hiebert, 2011
Students as Creators and Consumers of Content

- Debate/Forensics
- Drama
- Science Fair
- Odyssey of the Mind
- Project Based Learning
- Service Learning
- Online Collaborative Learning
- Book Clubs
- Newspaper/Yearbook
- Young Authors
There is strong evidence that the choice of instructional materials has large effects on student learning—effects that rival in size those that are associated with differences in teacher effectiveness.

--Chingos & Whitehurst, 2012
Are we collecting or...

Are we curating?
Reference Panel on Goniometer with Exotech measuring.
CCSS: 42 out of 50 states; 4 states with similar standards

NGSS: 17 states with one state with similar standards
#GoOpen States as of March 2016

Source: http://www.edcentral.org/oerinstates/
Competence

A specific range of skill, knowledge, ability to do something successfully, being adequately or well qualified, the condition of being capable of to meet demands, requirements.
(THANKS to Don Manderson, Escambia (FL) Schools & IMS Global)
“When instructors and students select an object for use, they have three questions in mind:

Is it the right type?
Is it the best I can find?
and How should I use it?”

-Nesbit, Belfer, & Vargo, 2002
There can be one and only one measure of the quality of educational resources, no matter how they are licensed: How much do students learn when using the materials? Really.

David Wiley, Associate Professor, Brigham Young University & Co-Founder and CEO, Lumen Learning
Resource Granularity

Do you want to catalog the whole website?

or

Just an item on the website?

• Course or Class
• Class or Unit
• Unit or Lesson

Catalog for Fastest, Most Direct Access