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Center for Teaching and Learning (CTL) DigitalCommons Report

Illinois Mathematics and Science Academy Library

This report represents a summary of activity from November 2010 thru April 2022

DigitalCommons@IMSA reflects the scholarly, innovative, and pedagogical culture of the Illinois Mathematics and Science Academy. The goal of this institutional portfolio is to share the intellectual output of IMSA and to increase visibility and impact through worldwide access.

DigitalCommons@IMSA furthers IMSA's mission "to ignite and nurture creative, ethical scientific minds that advance the human condition, through a system distinguished by profound questions, collaborative relationships, personalized experiential learning, global networking, generative use of technology and pioneering outreach."

Jean Bigger

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[DigitalCommons Users Guide](#)

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Publications & Research | Teacher Resources

DigitalCommons@IMSA was created to collect and disseminate scholarly works by IMSA’s faculty, staff, and students. It is a source for both external educators and researchers seeking open access articles and teacher resources. DigitalCommons supports IMSA’s Legislative Charge, furthers its Mission, and connects IMSA to a global community of scholars.

As with most institutional repositories, collections in DigitalCommons are located within the teams or departments that created them.

The Center’s collections include staff Publications & Research and assorted Teacher Resources:
<https://digitalcommons.imsa.edu/pfs/>

This content includes, but is not limited to: peer-reviewed articles • conference papers, posters, and presentations • book chapters • online publications, op-eds • webinars • dissertations • 19-19-19 “COVIDeos 19” E-Learning Webinars • STEM Snack Boxes • STEM at Home • STEM League Student Enrichment Programs • ISBE Transitional Math Curriculum: STEM Pathway



Available data: 12/16/2014 to 04/25/2022

Cumulative Statistics:

- 21,850 Full-text Downloads
- 1080 Institutions (primarily within Education)
- 141 Countries

A number of the CTL staff have also built and maintain professional profiles in IMSA’s [Expert Gallery](#).

Open Educational Resources (OER)

Legislative Charge: Excerpt from: (105 ILCS 305/) Illinois Mathematics and Science Academy Law

The Academy shall also carry a responsibility to stimulate further excellence for all Illinois schools in mathematics and science. That responsibility may be exercised through any or all of the following means:

1. Stimulating curriculum development and revisions through the collaborative efforts of the interacting institutions involved in the Academy including: universities, secondary schools, the industrial sector and national laboratories.

Several collections of the Center's educator resources are also featured within IMSA's Open Educational Resources. They include grant-funded open-access lesson plans and teaching units that are free to use and have no access restrictions:

- [Next Generation Science Standards \(NGSS\) Model Lessons](#)
- [Little STEAMers: Early Learning Program](#)
- [An Epidemiological Approach to Addressing Food Insecurity](#)



A close up view of the Readership Map for the NGSS Model Lessons illustrates that most of the full-text downloads are in Illinois.

Cumulative Statistics for the CTL's OER collections:

- 23,577 Full-text Downloads
- 254 Countries
- 1080 Institutions (primarily within Education)

These educator resources are also being disseminated through the [bepress TeachingCommons](#).

