Aligning the sum of all knowledge with school curricula

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WIKIMANIA
SINGAPORE
W4DE project overview
Steps

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Introduction

Wikidata for Education (WD4E) is an initiative that aims to improve the world’s ability to access relevant data about school curricula and to simplify and automate finding and aligning open educational resources to national curricula. It's a project that aims to use technology to enhance learning experiences and foster collaboration among educators.
What is Wikidata

Wikidata is a central storage for structured data that can be edited and read by humans or machines.
Curriculum information as structured data

Curriculum information is either available on pdf, word, website or paper format.

How do we structure curriculum data?

Missing Wikidata items
- Missing Wikidata properties
- Missing Wikidata structure

Education in Ghana (Q861546)

Curriculum document presented as pdf

Curriculum Topics
- P8263
Why modeling the curriculum?

Making it possible to improve the accessibility and quality of Open Educational Resources as demonstrated by these 4 use cases:

1. Support the Wikimedia volunteer editing community to improve content related to school curricula.

2. Create an education portal with curated content from the Wikimedia projects and other open education resources that is aligned with school curricula.

3. Give education stakeholders the ability to do comparative analysis of curricula on a global scale.

4. Make data about curricula readily available and machine readable so that developers can create innovative solutions to education challenges.
Where we are now

- Data Collection
- Multiple curriculum studies
- Providing a data model
- Uploading data on wikidata following the model
- Closing knowledge gaps related to school curriculum
- Publish a report
Curriculum model

Example of wikidata items for Ghana's curriculum
by Soukaina Abelhad
Example: Ghana’s curriculum
Example: Uruguay’s curriculum

- The beginnings of Modern Science and the impacts of technologies
- Renaissance and Humanism
- Constitution and interactions of the Muslim and Islamic world
- Social and cultural diversity in Western Europe, coexistence, and conflicts between religions
- History Curriculum for 7th grade
- Relationships with the different geographical spaces
- Rural and urban life and economic organization
- Arts and religions: links and manifestations
- History Curriculum for 7th grade
- Changes that accompany the political transition in the ancient Greek polis: from non-citizens to citizens
- Origins and constitutive elements of civilizations: politicalism and its economic and social repercussions
- Artistic and cultural expressions of Romanization and Christianization
- Formation, consolidation, crisis, and fragmentation of the State as a political power
- Cultural achievements and artistic expressions that have reached the present day
Example: Worldwide curriculum data on Wikidata

https://w.wiki/7EMN

Scan me!
Finding knowledge gaps on Wikipedia

https://w.wiki/5ueJ  English
https://w.wiki/5ueM  French
https://w.wiki/5ueP  Dagbani (A language Wikipedia in Ghana)
https://w.wiki/6kEN  Igbo (A language Wikipedia in Nigeria)
https://w.wiki/6kEQ  Twi (A language Wikipedia in Ghana)
What is next?

- Get the wikidata properties left (We need more support to approve these important properties!)
- Add more curricula to Wikidata.
- Build an app that would facilitate the usage of curriculum data on Wikidata for non-technical people.
- Educate teachers, researchers and students to learn how to use the interface.
- Continuous improvement of the model while expanding to other curriculum and collaborating with curriculum experts.
W4DE Campaigns
The campaign will close content gaps between the curriculum data uploaded to Wikidata and its corresponding Wikipedia articles.
Campaign is happening in three subjects of the Ghanaian curriculum and on three language Wikipedias.
First step

Campaign Activities

Activity 1.3.1
Coordinate an overarching multi-part campaign that improves content in at least two subject areas: English and at least 1 local language. The subject areas should include at least one internationally-relevant curriculum topic and one culturally or nationally specific curriculum topic area.

Activity 1.3.2
Organize at least 3 content drives for each subject area we select that engage, on average, at least 30 people per event who make meaningful content edits over the course of 6 months and continue to close knowledge gaps around curriculum-aligned content.
3 Campaigns so far in 3 languages (Ga, Twi & English)

So far we have had 3 campaigns in English Wikipedia, Twi Wikipedia & Ga Wikipedia which is even in incubator.
Some photos from our first social studies campaign. Link to images: [w.wiki/6kYz](w.wiki/6kYz)

CC by SA 4.0, Owula kpakpo
Highlight videos from our social studies campaign.
Local language campaigns

So far we have held three campaigns in the Twi Wikipedia with the Twi Wikipedia Community in Ghana and have held one Ga Wikipedia campaign with the Ga community helping bring it from incubator.
So far we are in the last few weeks of the campaigns and we are excited about what we are learning and how its going generally.
Speakers

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