

# Supporting the continuation of teaching and learning during the COVID-19 Pandemic

Annotated resources for online learning



**Fernando Reimers**, Global Education Innovation Initiative, Harvard University  
**Andreas Schleicher**, Organisation for Economic Co-operation and Development  
**Jaime Saavedra**, The World Bank  
**Saku Tuominen**, HundrED

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**hundrED**

## Introduction

For educators, the COVID-19 Pandemic is a quintessential adaptive and transformative challenge, one for which there is no pre-configured playbook that can guide appropriate responses. Education leaders must swiftly design responses – and with specific contexts in mind – as the pandemic runs its course. This brief discusses the second module of a series which presents the results of a comparative analysis of emerging educational needs and responses as the pandemic unfolds across countries around the world. The overall goal of this series is to facilitate the rapid design process and implementation of adaptive responses to the emerging education challenges, and to protect young people’s educational opportunities during and following the pandemic.

The first module, published end of March 2020 – *A framework to guide an education response to the COVID-19 Pandemic* – is a tool to support education leaders based on a cross-national survey conducted between the 18th and 27th of March 2020. The survey assessed educational needs, priorities, implementation challenges and emerging responses, and was the first of a series of surveys to monitor the evolution of responses to emerging needs in the education sector.

This second module is a collaborative effort between the Global Education Innovation Initiative at the Harvard Graduate School of Education, the OECD’s Directorate of Education and Skills,

the World Bank Education Global Practice and the organisation Hundred. It presents a first set of online educational resources to support the continuity of teaching and learning during the 2019-20 COVID-19 Pandemic with education leaders around the world. The resources were compiled from responses to the same survey used to produce the first module, and additional online sources were included to enhance the list in order to support the continuity of learning for students who have access to the internet and digital devices.

Subsequent modules will include a curated catalogue of radio and educational television resources, and a module to guide the implementation of effective education responses.

We hope these resources help those collaborating across institutions and countries in the important and urgent task of supporting students’ opportunity to learn during this challenging crisis shared among humankind.

**Fernando Reimers**, *Global Education Innovation Initiative at the Harvard Graduate School of Education*

**Andreas Schleicher**, *OECD*

**Jaime Saavedra**, *The World Bank*

**Saku Tuominen**, *HundrED*

# An annotated selection of online resources supporting education continuity during the COVID-19 Pandemic

As the COVID-19 Pandemic runs its course, many governments are implementing measures that limit the number of people congregating in public places. Such measures have disrupted the normal functioning of schools and universities. Because the duration of such measures has been extensive – and is likely to continue in some countries for a certain time until a vaccine becomes available – leaders of public and private education institutions have put in place alternative methods for students and teachers to continue with their lessons when attending school is not possible and are working on methods that will make schools fit for working in a safe environment.

Although students with access to digital devices and internet may not be the majority in most countries, supporting governments in establishing effective forms of online education will free up institutional capacities and resources in order to redirect their focus on delivering alternative learning methods for those students who do not have similar opportunities. This annotated selection of online educational resources intended for students, teachers and parents, aims to support governments and other education leaders as they research and assess different ways to continue educating students during the COVID-19 Pandemic. It can be used by those designing or improving upon a plan for education continuity, by either directly

incorporating some of these resources into their plan, or using them as a model to develop their own online educational materials.

This annotated selection is based on the March 2020 survey responses from 333 participants in 99 countries. We asked a range of stakeholders to identify online educational resources that they had found helpful in supporting education continuity up to that point. Nineteen former master's students from the Harvard Graduate School of Education, with experience ranging from teachers, teacher coaches, developers of professional development programmes, education administrators and researchers were asked to analyse these resources. They are highly qualified education experts whose professional judgement I trust and value. Furthermore, I greatly appreciate the fact that they gave their time for this global public good project.

The team met to discuss the criteria to assess these resources, and then went through them one by one. In addition to classifying each resource by type, language, subject and grade level, the team provided a summary and rated the resources on a scale from one to five, with five being the highest. In addition, when possible, the instructional resources were coded in terms of which competencies they were designed to develop, using a taxonomy from an empirical

literature review on competencies needed for work and life produced by the National Research Council in the United States . We thought it would be helpful to use this taxonomy in order to code these resources as attention is given to a broad range of skills – social and emotional, and cognitive – to help students learning outside of school. Therefore, signalling to teachers and parents which resources are designed to serve that goal is useful. The taxonomy is presented below.

After careful analysis, we retained about half of the resources which had been collected in the survey, which the reviewing team evaluated as being of high quality. The resources are presented in this document, and in an online searchable database . Every effort was made to code each resource in the various categories. As this was not always possible, the entry for that specific category and for that particular resource was left blank.

The resources are grouped into three broad sections, according to their purpose:

1. Curriculum Resources: These include lessons, videos, interactive learning modules and any other resources that directly support students in acquiring knowledge and skills. We present 72 resources, which include several repositories of resources.

2. Professional Development Resources: These are resources which can support teachers or parents in supporting learners, guiding them to content, developing their skills to teach remotely, or more generally augmenting their capacity to support learners now learning more independently and at home, rather than at school. We present 21 professional development resources.

3. Tools: These include tools that can help manage teaching and learning, such as communication tools, learning management systems or other tools that teachers, parents or students can use to create or access educational content. We present 20 professional development resources.

Within each of these categories we present the resources arranged by the language in which they are available (for curriculum and professional development).

The following taxonomy is used to classify curriculum and professional development resources (Pellegrino and Hilton, 2012<sup>[1]</sup>).

## Reference

[1] Pellegrino, J.W. and M.L. Hilton (eds.) (2012), *Education for Life and Work: Developing Transferable Knowledge and Skills in the Twenty-First Century*, National Academies Press, Washington, DC.

## Taxonomy used to classify curriculum and professional development resources (Pellegrino and Hilton 2012)

1. Cognitive Skills	2. Interpersonal skills	3. Intrapersonal skills
<b>1.1. Processing and cognitive strategies</b> <b>CT:</b> Critical Thinking <b>PS:</b> Problem Solving <b>A:</b> Analysis <b>LR:</b> Logical Reasoning <b>I:</b> Interpretation <b>DM:</b> Decision Making <b>EF:</b> Executive Functioning	<b>2.1. Collaborative group skills</b> <b>Cm:</b> Communication <b>Cl:</b> Collaboration <b>TW:</b> Team Work <b>Cp:</b> Cooperation <b>Co:</b> Coordination <b>EP:</b> Empathy, Perspective Taking <b>Tr:</b> Trust <b>SO:</b> Service Orientation <b>CR:</b> Conflict Resolution <b>Ne:</b> Negotiation	<b>3.1. Intellectual Openness</b> <b>Fl:</b> Flexibility <b>Ad:</b> Adaptability <b>Ar:</b> Artistic and Cultural Appreciation <b>PS:</b> Personal and Social Responsibility <b>IC:</b> Intercultural competency <b>AD:</b> Appreciation for diversity <b>CL:</b> Capacity for lifelong learning <b>Il:</b> Intellectual interest and curiosity
<b>1.2. Knowledge</b> <b>LC:</b> Literacy and communication skills <b>AL:</b> Active listening skills <b>KD:</b> Knowledge of the disciplines <b>Ev:</b> Ability to use evidence and assess biases in information <b>DL:</b> Digital Literacy	<b>2.2. Leadership</b> <b>Le:</b> Leadership <b>Re:</b> Responsibility <b>AC:</b> Assertive Communication <b>SP:</b> Self-Presentation <b>SI:</b> Social Influence	<b>3.2. Work Ethic, Responsibility</b> <b>Ini:</b> Initiative <b>SD:</b> Self-direction <b>Res:</b> Responsibility <b>Pe:</b> Perseverance <b>Pr:</b> Productivity <b>Pt:</b> Persistence <b>SR:</b> Self-Regulation <b>MT:</b> Meta-cognitive skills, anticipate future, reflexive skills <b>Pro:</b> Professionalism <b>Eth:</b> Ethics <b>Int:</b> Integrity <b>Cit:</b> Citizenship <b>WO:</b> Work Orientation
<b>1.3. Creativity</b> <b>C:</b> Creativity <b>In:</b> Innovation		<b>3.3. Self-efficacy</b> <b>SA:</b> Self-regulation (self-monitoring and self-assessment) <b>PMH:</b> Physical and mental health

Source: Pellegrino, J.W. and M.L. Hilton (eds.) (2012), *Education for Life and Work: Developing Transferable Knowledge and Skills in the Twenty-First Century*, National Academies Press, Washington, DC.

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="https://deafworldaroundyou.org/Stories">https://deafworldaroundyou.org/Stories</a>								
Free digital stories in written and sign language in a variety of languages around the world. Enables communities to create content in local and national sign languages and share it in WAY's open content digital library of folktales. The digital libraries are viewable from any web browser and can be remixed by anyone, including children, with simple text and video editing tools	20 languages, sign languages	K-12	Literacy	Freely available	Learning about different cultures through stories	1.2		
<a href="https://www.digitallibrary.io/">https://www.digitallibrary.io/</a>								
Bank of free children's books across a variety of subjects, themes, and reading levels.	40 languages	Early childhood, primary	Literacy, math, science, social studies, socio-emotional learning	Freely available	Learning about different cultures through stories	1.1 1.2 1.3	2.1	3.1
<b>Feed the Monster</b>								
Feed the Monster is an app for kids to learn to read through a game where they collect and grow pet monsters. Skills include phonics, letter writing, vocabulary, phonological awareness, and social and emotional skills	50 languages	Early childhood, primary	Literacy	Freely available		1.2		



Table 1. Curriculum Resources









Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<b>Education Perfect</b>								
Education Perfect (EP) plugs into a Learning Management System or a Stand Alone Learning Platform. It contains a rich library of curriculum-aligned lessons in subjects including languages, math, science, technology, humanities, among others. EP is built using a Mastery Model - meaning that the assessments adapt to student's learning progression. The platform has various tools for assessments and most content is automatically marked. Assessments are adjusted based on the learner's input. Based on how well students perform on any given topic, the platform automates the delivery of differentiated instruction materials based on learner competencies across various subject areas at various grade levels. Content from the New Zealand, Australian, IB, Common Core, and Cambridge Assessment models is available. Content is carefully developed to allow all students to experience success, while providing rich opportunities for higher order thinking. The platform has functionality for independent and collaborative learner activities. Teachers have access to automated grading and model answer demonstration, as well as peer review. Live student engagement can be marked based on student participation in the live virtual classroom sessions. Content authoring tools allow teachers to design their own lesson plans, assignments, learning timelines, and feedback models.	Available in 80 countries (unclear in how many languages) The language learning portion of the platform teaches: Chinese, German, French, Italian, Spanish, Indonesian, Japanese, Arabic and Te Reo Maori.	K-12	Languages, Language Arts, Math, Science, Technology, Health and PE, Humanities	Free registration is available. However, the full set of services is not free. Pricing is not marked on the site.	Yes, Depending on how the learning environment is designed.	Yes	Yes	Yes, Depending on how the online learning environment is designed.
<b><a href="http://e-education.brac.net">e-education.brac.net</a></b>								
The Computer Aided Learning (CAL) programme of the international development organization BRAC provides ready-made education materials, including digital textbooks and interactive multimedia materials. Materials are tailored for use on multiple devices and can be downloaded for computer or used as mobile and web apps.	Bangla/Bengali	1-10	Bengali, Math, Science, English, Economics	free of charge	One of the series is 'Bangladesh and the World Market' there are also resources for learning English	 		
<b><a href="http://blogs.escolacristiana.org/formacio/escola-cristiana-en-xarxa/">http://blogs.escolacristiana.org/formacio/escola-cristiana-en-xarxa/</a></b>								
Catalonia's Christian School Network coronavirus homepage provides online learning resources, such as activities and stories, for early childhood, primary, and secondary students. It also provides general resources for families, a few professional development resources, and a few links for church pastors. While clearly geared specifically towards religious education, some of the activities could be used for all learners.	Catalan	K-12	All, including religion (Catholic/Christian)	Yes	N/A	  		 

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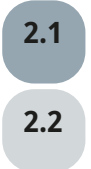







Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="https://www.icourse163.org/">https://www.icourse163.org/</a>								
China MOOC is the EdX Chinese version with massive free recorded and live courses from all top Chinese universities and independent instructors. Many universities in China are relying on this as complementary resources currently.	Chinese	adults	all	Some courses are free and some are not	all			
<a href="https://open.163.com/">https://open.163.com/</a>								
It's the biggest non-governmental MOOC platform in China. It's courses cover humanitarian, social sciences, science, business, arts and nearly all areas. Different from China MOOC, it also include a lot of English courses in world-class universities and Ted Talks with Chinese subtitle. And it's more friendly for students in middle schools and high schools than China MOOC.	Chinese	all	all	Some courses are free and some are not	all			
<a href="http://1s1k.eduyun.cn/">http://1s1k.eduyun.cn/</a>								
"One Teacher One Course" is a national governmental k-12 education platform with more than one million recorded course videos and curriculum planning from outstanding teachers all around China. It covers all subjects in primary schools, middle schools, high schools and special education schools.	Chinese, Minority Languages in China	6-18 years old, all kinds of schools	all subjects, including safety education, psychological education and family education	free	all			



Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<b>TEDEd</b>								
The website provides curated content including video-based lessons organized by age and subject, video series organized by topic, and blogs. Learners can sign up for a daily lesson plan that span all subjects and groups. Lessons are self-paced and pre-designed. Lessons are organized into categories - watch, think, dig deeper, discuss. From the site: To support the millions of students, parents and teachers affected by the COVID-19 pandemic, TED-Ed is working with expert educators and TED speakers throughout the world to create and share high-quality, interactive, video-based lessons on a daily basis, for free. Teachers and students can enter their email to have a handful of engaging lesson plans organized by age group that span all subjects delivered to your inbox every day. Each newsletter will also include insights and tips collected from TED-Ed's global community of students, parents and teachers.	Content is mostly in English with Closed Captioning options in other languages depending on the video.	K-12, Higher-Education	Arts, Business & Economics, Design, Engineering, Technology, Health, Literature & Language, Mathematics, Philosophy & Religion, Psychology, Science & Technology, Social Studies, Teaching & Education, Thinking & Learning	Free	Yes - depending on the content watched.	Yes	Yes	Yes
<b>Newsela</b>								
Newsela is a data base of current events stories tailor-made for classroom use and organized by content topics. Newsela content is indexed by broad themes and stories in over 20 genres. Content is both student-friendly and can be accessed in different formats by five reading level. Content is updated daily and aligned to US reading standards. Newsela can help teachers to assign differentiated nonfiction reading materials to students in subject areas such as Social Emotional Learning, Language Arts, Science, History among other topics. Student content is designed to be engaging and accessible. For teachers Newsela provides training and support, implementation tips, and an Educator certification.	English	K-12	Social Studies, Science, Social Emotional Learning, English and Language Arts, Nonfiction Content (cross-curricular)	Some free resources are available on the site as samples. The service is not free. Unclear what the pricing model is.	Yes - Social Studies Curriculum	Yes	Yes - SEL curriculum	Yes - SEL curriculum
<b><a href="https://www.inthinking.net/">https://www.inthinking.net/</a></b>								
InThinking is an educational consultancy service with close links to the International Baccalaureate (IB). On their website they offer lessons plans for secondary teachers based on the IB curricula. Teachers can use the lesson plans which come ready with all the links or they can assign them to students for them to access them through their student access. Most of the lesson plans have been adapted for distance learning. InThinking content is indexed by subject areas. Lesson plans are offered for the following subject areas: Biology, Chemistry, Economics, Literature, Social Studies, History, French, Geography, German, Math, Physics, Spanish, and Visual Arts. InThinking is a paid subscription, however, they are offering their lesson plans for free for one month during school closures.	English	10-12	Biology, Chemistry, Economics, Literature, Social Studies, History, French, Geography, German, Math, Physics, Spanish, and Visual Arts	It is a paid subscription, however they are offering one month for free during school closures.	Yes	1.1 1.2 1.3	2.1	3.2 3.3

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="http://whiterosemaths.com">whiterosemaths.com</a>								
White Rose Math is a teacher group which offers math training and resources. The resources on the site are meant for parents and teachers. The content is organized by grade level based on the British system. The White Rose Maths Team has prepared a series of five maths lessons for each year group from Year 1-8. They will be adding five more each week for the next few weeks. Every lesson comes with an answer key and a short video showing the teacher or parent clearly and simply how to help the child to complete the activity successfully.	English	K-8	Math	The math lessons are free. There is an option for a paid subscription for teachers who want to have assessment and other data about their students.	No	1.1 1.2 1.3	No	3.1 3.2 3.3
<a href="https://learnenglish.britishcouncil.org/">https://learnenglish.britishcouncil.org/</a>								
Learn English is hosted by the British Council and uses high-quality resources to help users improve their English. There are unique, but linked websites for adults, teens, children, and teens. The focus is on learning English (cognitive skills) and best suited for learners wishing to improve their English.	English	Grade 1- Adult. Beginner to Advanced English		Most learning activities are free. It is 5.99 GBP / month for business related courses.	Learning/ listening to English and about British culture	1.2		3.2
<a href="http://scoilnet.ie">scoilnet.ie</a>								
This website is excellent. It contains rich and diverse high-quality resources directed towards teachers and learners. Activities and guides can be self-paced/self-directed by the learner, or facilitated with adults. Material encourages critical thinking, and learning across subjects (ex: integrating learning new vocabulary into math activities). Resources available across subjects, searchable by grade level, subject, and domain within each subject (ex: fractions within mathematics).	English	Early childhood, K-12	Drama, English, Math, Music, Physical Education Religious Education, Geography, History, Science, Art	Freely available!	Rich social studies program that can build global understanding	1.1 1.2 1.3	2.1	3.2 3.3

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Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="https://www.mathsbot.com">Mathsbot.com</a>								
This site has excellent and rich math online and printable math resources for all ages. Online resources are interactive, offering hints, alternative questions of similar difficulty, correct answers, and rationale. includes a range of math skills from basic operations to calculus. The site allows for organic discovery-based learning, as it has a section that offers digital versions of common math manipulatives for kids to play with online, such as counters, geoboards, dominoes, number frames, and pattern blocks.	English	Early childhood, K-12	Math	Freely available!	Not really	1.1 1.2 1.3	Not really	3.1 3.2 3.3
<a href="https://www.kognity.com">www.kognity.com</a>								
Digital textbooks that have interactive video examples, models, and practice tests. Their textbooks align with IB DP, IGCSE, and GCSE.	English	9-12		Payment per student, per year, per textbook		1.1 1.2		
<a href="https://www.centurytech.com">Century Tech</a>								
Century Tech is advertised as "the tried and tested intelligent tool that combines artificial intelligence, learning science and neuroscience to help your child learn." The site provides online learning resources for primary and secondary students, parents, teachers, and members of independent or international schools. Century Tech appears to be a U.S. company with no particular connection to Spain's education system.	English	K-12	All	\$30 / month subscription; however, English, math, and science resources are all currently free due to the coronavirus.	Specific targeting for international schools	N/A	N/A	N/A

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<b>BrainPop</b>								
BrainPOP is an animated Educational Site for Kids. It offers a bank of short animated videos for the subjects of Science, Social Studies, English, Math, Arts & Music, Health, and Technology. The videos are organized into categories and have the option of closed-captions to support language learners. Each video has a quiz and a follow-up activity. Teachers can use these animated videos as part of their lessons or as a stand alone by assigning them to students. Teachers can create a classroom and have students join using a code generated by the website for their class. BrainPop is divided into three platforms: BrainPOP for grades 3-6, BrainPop Jr. for grade K-3, and BrainPop ELL for language learners.	English	K-6	Science, Social Studies, English, Math, Arts & Music, Health, Technology	Free during school closure.	Yes	1.1 1.2 1.3	No	3.1 3.2 3.3
<b><a href="https://www.retradeproject.co.za/bash-the-trash">https://www.retradeproject.co.za/bash-the-trash</a></b>								
Initiative encouraging children to make their own musical instruments out of waste. The site features instrumental tutorials, a music track for kids and lyrics for kids to sing along to, a colouring book about recycling,	English	Early childhood, primary	Music	Freely available	Environmental awareness, recycling	1.3	2.1 2.2	3.2
<b>Randall's ESL Cyber Listening Lab: <a href="https://www.esl-lab.com/">https://www.esl-lab.com/</a></b>								
Randall's ESL Cyber Listening Lab was founded by an English as a second language teacher (Randall) and the site is primarily run by him and his family. It has been designed to provide a narrow focus of easy-to-use activities. In terms of the focus of the site, it is on learning English, but is sometimes also used by those with cochlear implants and parents of autistic children. Due to the nature of the site, it is primarily geared toward developing cognitive skills. While the site is not fancy, it does provide learners with opportunities to improve their listening skills. This site would be useful for teachers of English, likely from Grade 2 and up.	English	Grade 2 and up		Free	Learning/ listening to English and about English speaking cultures	1.2		3.2

Table 1. Curriculum Resources





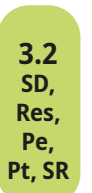




Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<b>Byju</b>								
One of India's largest & fastest growing ed-tech companies that offers tutoring videos of the one-to-many format. The company typically charges 500-600 USD for access to its classes and is now offering classes for students for free given COVID related school closures. Classes are however confined to the Sciences and Mathematics for Grades 4-10. Content is organized by the state board (two main central govt. managed exam boards in the country that are then adapted at the state level). Both videos and worksheets are available to students that is available on special Byju-tablets. During COVID, students can download the BYJU app on their smart phones and access content.	English	4-10		Free during COVID, otherwise paid		 		
<b>Math-u-See: <a href="https://www.mathusee.com/">https://www.mathusee.com/</a></b>								
Math-u-See is a very well known program that's been around for decades. It was created by a math teacher who designed manipulatives (blocks) to turn abstracts concepts into very concrete examples, allowing children as young as kindergarteners to learn place value, to tell time and the foundations of addition and subtraction in very simple terms. Math-u-see uses videos, physical manipulatives, printed workbooks and test books. It offers content from kinder through high school. It is a mastery-based program that mostly focuses on one topic at the time and offers many opportunities for repetition and practice for the student to learn well before moving onto the next math concept.	English	Kinder through twelfth		It is a paid program.		 		
<b><a href="https://phet.colorado.edu/">https://phet.colorado.edu/</a></b>								
The PhET Interactive Simulations project at the University of Colorado Boulder creates free interactive math and science simulations that are available online or through an app. PhET sims are based on extensive education research and engage students through an intuitive, game-like environment where students learn through exploration and discovery. Teachers can use this resource to supplement their online lessons.	English - available in 93 languages	K-12 and University	Math, Sciences	Freely available	N/A	  	Depends on lesson delivery and facilitation	

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<b>RAZ Kids</b>								
Raz-kids is designed to provide levelled reading resources for students. It offers eBooks at 29 different levels, and provides kids with an interactive learning portal designed to keep them engaged. After reading activities, there are eQuizes for students and the system is designed to progress students to the next reading level when they are ready. The website it is in English, and there are some Spanish language resources as well. It is designed for students in pre-K to Grade 6. Raz-kids is one sub-section/product of Learning A-Z, which is “an education technology company dedicated to expanding literacy through thoughtfully designed resources”. It offers many teacher resources. Some virtual resources have been made free for 90 days from Learning A-Z during the Covid-19 school closure period for those based in Canada and the United States. "	English (some Spanish books available)	Pre-K to Grade 6		It is not free. It requires an annual pass but does not openly post prices <u>online</u> . During the Covid-19 outbreak, U.S. and Canadian educators may access a 90-day free trial.	-	1.1 1.2		3.2 SR
<b><a href="https://www.longhornpublishers.com/">https://www.longhornpublishers.com/</a></b>								
Book publisher that also has an e-learning platform which offers revision/model test papers and quizzes for students (grade 9 - grade 12), model test papers. Learning materials (e-books) available for students from grade 1-8.	English & Kiswahili	Grade 1-8 (e-books) and revision quizzes (grade 9-12)	Not decipherable from the website	30 day free trial of the e-learning platform. Doesn't seem like it's been offered specially during Covid times	N/A	1.2 KD	N/A	N/A
<b>IXL</b>								
IXL is a standards-based platform that offers a complete curriculum of educational skills from pre-school through the eighth grade. It covers the following subjects: Math, Language Arts, Science, Social Studies, and Spanish. It organizes the content by skills, grade levels or topics, making it very easy to access the specific topic of interest for the appropriate grade.	English and Spanish	Pre-school through twelfth grade		It does require payment (monthly or yearly) Many schools in the US have purchased licenses and offer it for free to their students.		1.1 1.2 LC, KD, DL		3.1 AD, II 3.3 SR



Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="#">Khan Academy</a>								
Video lessons with self-paced assignments on a range of topics such as K-12 grammar, science, history, AP, SAT, and more. It is mostly known for its math content.	English but you can change the language (40+ languages)	K-12 and adult education		Free		1.1 1.2		3.1
<a href="https://pangeaeducation.org/covid19">https://pangeaeducation.org/covid19</a>								
The Unwelcome Stranger is an illustrated children's book written by the NGO Pangea Educational Development that "provides important public health information through a narrative that empowers parents to discuss this subject with their children." It is freely available online (visual, audio, and audio-visual versions) and is accompanied by comprehension questions, activities, and discussion topics.	English, Acholi, Arabic, Bari (Kakwa), French, Housa, Igbo, Luganda, Ng'akarimojong, Runyankole, Rutooro, Swahili, Yoruba	K-6	Literature	Freely available	This resource targets an African market but can serve to nurture responsibility, empathy, unity, and children empowerment on a global scale.	1.1 1.2 1.3	2.1 Cm, EP, Tr, SO  2.2 Re, SI	3.1 3.2 3.3
<a href="https://www.antura.org/download/">https://www.antura.org/download/</a>								
Learn Arabic literacy through 23 games built into an app. The app is designed to support children who are unable to attend school. Skills include letter recognition, writing, phonological awareness, and vocabulary	English, Arabic	Early childhood, primary	Literacy	Freely available		1.2		
<a href="#">Crash course videos</a>								
Crash Course is a YouTube Channel with 15-20 minute educational videos. They usually accompany high school and college level classes. Courses include: History, Artificial Intelligence, Navigating Digital Information, History of Science, Engineering, Statistics, Theatre and Drama, Sociology, World History in Arabic, Media Literacy, Literature, World Mythology, Study Skills, Chemistry, Physics, Philosophy, Psychology, Business Entrepreneurship, etc.)	English, but there is a "World History in Arabic" Series	8-12		Free		1.1 1.2		3.2

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<b>Ubongo</b>								
Ubongo (along with Akili & Me, and Ubongo Kids) is a leading edutainment platform in Africa that creates fun, localised, and multi-platform educational content to target children's learning through technologies like TV, radio, and mobile telephones.	English, Kiswahili	Akili & Me: Pre-K - 1 ; Ubongo Kids: 1-12	Akili & Me: any ; Ubongo Kids: STEM	Freely available		1.1 1.2 1.3	2.1	3.1
<a href="https://www.bookshare.org/cms/">https://www.bookshare.org/cms/</a>								
Online library of almost 1 million titles available through customized reading experiences adapted for people with blindness, dyslexia, cerebral palsy, and other reading barriers.	English, possibly other languages	K-12	Literacy	The library is provided to individuals with disabilities for free or low cost, depending on the support of local partners in their region	Learning about different cultures through stories	1.2	N/A	N/A
<a href="https://kukua.me/sema/">https://kukua.me/sema/</a>								
Package of game-based apps to enable children to teach themselves how to read, write and do basic numeracy. The curriculum was designed in collaboration with pedagogy experts and teachers in Africa. Uses a female role model character that guides kids through letter-writing, phonological skills, phonics, and other literacy skills	English, possibly other languages	Primary	Literacy	Freely available	N/A	1.2	N/A	N/A
<a href="https://www.ekitabu.com/">https://www.ekitabu.com/</a>								
EBooks in English and Swahili aligned to the Kenyan syllabus - the site promotes digital access to books, including textbooks and storybooks	English, Swahili	K-12, post-secondary	Literacy, math, science, social studies, socio-emotional learning	Freely available	N/A	1.1 1.2 1.3	N/A	N/A

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="http://kitkitschool.com/">http://kitkitschool.com/</a>								
Tablet-based early learning program that includes a suite of games, books, videos, and art and music tools to support children in learning literacy and math skills independently. Kitkit School is currently available in English, Swahili, and ESL with Rohingya instruction. Includes hundreds of activities, quizzes, books, and videos, as well as a suite of tools for creativity	English, Swahili, ESL Rohingya	K-12	Reading, writing, math	Freely available	N/A	1.2 1.3	N/A	N/A
<a href="http://Starfall.com">Starfall.com</a>								
Starfall was started to teach children to read, and has expanded to include language arts and mathematics. Starfall's emphasis on phonemic awareness, systematic sequential phonics, and common sight words in conjunction with audio-visual interactivity has proven effective in teaching emergent learners. Their activities are research-based and align with Individual and Common Core State Standards in English language arts and mathematics. The program emphasizes exploration, play, and positive reinforcement — encouraging children to become confident and intrinsically motivated. Starfall is especially effective for special education, home schooling, and English language development (ELD, ELL, ESL). It is widely used in schools that serve children with special needs and learning difficulties.	English. French and Spanish ABCs are available for members, based on the English ABC model.	Pre-K - 3	reading, language arts, and mathematics	Some free resources are available, and for a low-membership fee (home membership \$35 annually), the program expands the free content to include animated songs, mathematics, and reading activities spanning K-3. Educational materials are also sold on the online store.	No	1.1 1.2 1.3	N/A	N/A
<a href="https://seshagun.gov.in/shagun">https://seshagun.gov.in/shagun</a>								
Nationally funded, overarching, system level integrated program by the Government of India for school education. It has educational resources and open-access data for students and teachers across k-12 grades. Also contains training programs and mid-day meals program information for schools.	English/Hindi	k-12						

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<u>Learning A to Z</u>								
Learning A to Z is a resource platform. It is indexed into sub platforms and sub sites: Reading A to Z, Science A to Z, Writing A to Z, Vocabulary A to Z. They also offer content in collections which include: Reading Essentials, Science Literacy Collection, Language Arts Collection, ELL collection. Their content is organized by level with correctional charts for many curricula, standards, and reading levels. Their content is paid, however, it is all free until the end of this school year (June 2020). Every resource comes with a teacher lesson guide and a student resource. Students can access it via the app or via the website. Teachers can assign content to students and can track their progress through the teacher dashboard.	English/Spanish	K-5	Science, English, Writing, Reading	Free until the end of the 2020 school year.	Their materials are diverse in content and in presentation. Their topics provide a global perspective.	1.1 1.2		3.1 3.2 3.3
<a href="https://eduthek.at/schulmaterialien">https://eduthek.at/schulmaterialien</a>								
Eduthek is a database of online materials for basic and secondary education. Eduthek is provided by the Austrian Ministry of Education and includes links to static and interactive materials which cover instruction in the core curriculum. The aim of the website is to give teachers, students and guardians access to online exercises which students of age to use a computer can use independently.	German	Kinder (ages 3-6) through Upper secondary (ages 14-19)	sports, math, German, German as a second language, English, music,	Free	The cite links to learning materials which deal with multiplicity, such world religions, world history, and environmental movements	1.1 1.2		3.1 3.2 3.3
<u>simpleclub.de</u>								
Simpleclub is an educational app with videos, interactive exercises and individual learning plans. The app is focused on test preparation for lower and upper secondary school students.	German	Grade 7-12		A free version of the app until April 20, 2020				

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<b>Feed the monster hindi</b>								
Hindi version of the popular language game developed for Syrian refugee children, teaches language through activities for matching letters with sounds, early reading and spelling skills. It incorporates key skills for literacy, including Phonological Awareness, Letter Recognition, Phonics, Vocabulary, and Sight Word Reading so kids can develop a strong foundation for reading. Designed to encourage empathy, perseverance and socio-emotional development for children	Hindi App is available in 15 languages including: Farsi; Kurdish; French; Portuguese; Spanish; Swahili; Bangla; Hausa; Zulu; Hindi; Urdu; Somali; Yoruba; Igbo; Amharic	Ages 3-8	Reading comprehension, reading fluency, available in multiple languages	Free		1.2 LC, DL	2.1 Cm	3.1 Pe
<b><a href="https://fraedslugatt.is/">https://fraedslugatt.is/</a></b>								
Directorate of Education has created a new web platform for educational materials for teachers and students in Compulsory schools.	Icelandic							
<b><a href="https://krakkaruv.spilari.ruv.is/">https://krakkaruv.spilari.ruv.is/</a></b>								
National broadcasting company as put extra effort in to the web platform for young people with materials that can be used both for educational purposes and for leisure.	Icelandic							
<b>Rumah Belajar: <a href="https://belajar.kemdikbud.go.id">https://belajar.kemdikbud.go.id</a></b>								
Provided by the Ministry of Education and Culture, this is a website and a mobile app that allows students to access learning resources for free	Indonesian	K-12, Special Education		Free access		1.2	2.1	3.2
<b>Ruangguru: <a href="https://sekolahonline.ruangguru.com">https://sekolahonline.ruangguru.com</a></b>								
Ruangguru is one of the largest Education Technology platforms in Indonesia (KhanAcademy type of edtech). They give free access not to all content they have but only for the online school (sekolah online) tab which included all materials covered for K-12	Indonesian	K-12		Free access only for "online school" program		1.2	2.1	3.2

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<b>Zenius Education:</b> <a href="https://zenius.net/belajar-mandiri">https://zenius.net/belajar-mandiri</a>								
Similar to Ruangguru, Zenius is one of the largest EdTech platforms. During COVID they give free access to 80,000+ videos for examination prep such as the college entrance examination (UTBK) and the national examination (UN)	Indonesian	K-12		Free access		1.2	2.1	3.2
<b>Kelas Pintar:</b> <a href="https://kelaspintar.id">https://kelaspintar.id</a>								
Kelas Pintar gave out free access to online learning for students and teachers	Indonesian	K-12		Free access		1.2	2.1	3.2
<b>Skill Academy by Ruangguru:</b> <a href="https://skillacademy.com/">https://skillacademy.com/</a>								
Skill Academy is one of Ruangguru product, targeted adult who wants to learn professional skills such as programming, finance, etc.	Indonesian	Higher Education, Professional		Free access		1.2 1.3	2.1 2.2	3.1 3.2 3.3
<b>Sekolahmu:</b> <a href="https://www.sekolah.mu/tanpabatas">https://www.sekolah.mu/tanpabatas</a>								
Free access to video for learning resources for students, teachers, and parent along with carrier guide for graduates	Indonesian	K-12 and higher education		Free access		1.2	2.1	3.2
<a href="https://www.riconnessioni.it/galleria/">https://www.riconnessioni.it/galleria/</a>								
Materials for teachers and learners for remote learning:	Italian							



Table 1. Curriculum Resources







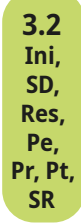
Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="http://beep.moeys.gov.kh/">http://beep.moeys.gov.kh/</a>								
The Basic Education Equivalency Programme (BEEP), jointly initiated by UNESCO, the MoEYS and the Ministry of Labour and Vocational Training, provides free access to online supplementary resources covering 11 subjects for lower secondary school students. BEEP was initially designed for out-of-school children and youth in Cambodia but is now open for all Cambodian students who have been instructed to self-study at home in light of the COVID-19 outbreak.	Khmer	Lower secondary (Grades 7-9)		Yes				
<a href="http://www.kmooc.kr/">http://www.kmooc.kr/</a>								
K-MOOC is an open online learning platform that offers higher education-level auditable online video lectures in 7 areas, including Humanities, Social Studies, Education, Engineering, Natural Sciences, Medical Sciences & Pharmacology, and Arts & Physical Education. This platform provides learners with interactive learning processes such as Q&As, discussions, quizzes, and assignments.	Korean	Higher education, adult education, lifelong learning	Various subjects in Humanities, Social Studies, Education, Engineering, Natural Sciences, Medical Sciences & Pharmacology, and Arts & Physical Education	yes	cultural awareness, language	 		
<a href="http://www.ebs.co.kr">www.ebs.co.kr</a>								
The Korea Educational Broadcasting System (EBS) produces widely-respected educational programs for children and high-quality documentaries for all age groups. Complementing public education in Korea, it aims to ensure access and openness in education by providing customer-oriented service, multimedia content and an interactive e-learning system that is always accessible with any device.	Korean	Pre-primary, K-12, adult learners	<ul style="list-style-type: none"> <li>- "EBS Kids" (for children aged 3 to 14): soft-skills, SEL-related content</li> <li>- K-12: all school subject areas</li> <li>- Adult Learners: language courses, prep course for job entrance exams, information &amp; education (culture, documentaries, light entertainment)</li> </ul>	Freely available expect for language courses for adult learners	cultural awareness, language and communication skills	  		  

Table 1. Curriculum Resources



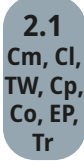
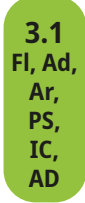
Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="http://www.edunet.net">www.edunet.net</a>								
Edunet allows 1st- to 7th graders to study at their own pace by offering self-assessment tools and videos on the main subjects, such as Korean and English language, Social Studies, Mathematics and Science.	Korean	1-7	Korean and English language, Social Studies, Mathematics, Science	Yes		Knowledge and skills in Korean, English, Math, Science and Social Studies		
<a href="#">Cyber Learning System</a>								
Cyber Learning System is an e-learning portal for primary to lower secondary school students. This portal provides learning materials for Korean and English Language, Social Studies, Mathematics and Science.	Korean	1-9	Korean and English Language, Social Studies, Mathematics, Science	Yes	cultural awareness, language and communication skills, environmental awareness	 		
<a href="https://webdt.edunet.net/">https://webdt.edunet.net/</a>								
Digital Textbooks provides 3rd- to 8th-graders with digital textbooks, including multimedia materials and quizzes, so that students can study at home.	Korean	3-8		Yes	-			
<a href="http://onschool.edunet.net/onSchool/listBoardForm.do?board_seq=6">http://onschool.edunet.net/onSchool/listBoardForm.do?board_seq=6</a>								
Onschool is an integrated portal operated by the Ministry of Education which provides online learning materials for level K12 and teachers. It offers brief lesson-introductions, assignments and multimedia resources such as YouTube selected by teachers. This portal also provides teachers with teaching and extra-curricular content and resources that can facilitate developing and managing online classes.	Korean	K-12		Yes	-			

Table 1. Curriculum Resources
















Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="https://educationaboveall.org/#!/news/eaaprovides-home-learning-support-for-parents-and-guardians">https://educationaboveall.org/#!/news/eaaprovides-home-learning-support-for-parents-and-guardians</a>								
Education Above All is providing home learning support for parents and guardians. They have curated and compiled a list of vetted educational resources for students to use outside the classroom. The resources are designed for NGOs, schools, educators, parents and students in the nearly half of global households that are not connected and for those that have moved to online-schools to supplement their learning. There are a bank of educational projects that are across subjects, interdisciplinary, engaging and do not require any technology to be implemented. The projects are designed for different age groups and have low resource requirements. They will continue to create materials.	Resources are in English and various languages like Arabic, Hindi, Italian, French, Spanish.	K - 12	All	Free	yes - depends on activity selected	All - depends on activity selected	All - depends on activity selected	All - depends on activity selected
<a href="http://www.aprende.edu.mx">www.aprende.edu.mx</a>								
This resource provides many digital education resources, mostly in the form of videos lessons but also as pdf documents and interactive links. They can be filtered by grade level, subject matter, and core competency. Each resource has a description of the lesson and the type of competencies. The only limitation for this website is that the resources are tied to the Mexican education system's established curriculum. For people in and from Mexico, this is a great bonus, but for people in other Spanish-speaking nations, it could be a limitation since they will have to match their own lesson plans and curriculum to these resources. However, as long as parents and/or students know what subject matter, grade level, or competency they are looking for a lesson in, they can easily navigate according to their needs.	Spanish	Preschool-9th grade	All Subjects	Freely available		  		  
<a href="http://www.telesecundaria.sep.gob.mx">www.telesecundaria.sep.gob.mx</a>								
Telesecundaria is a type of Mexican school program for students in grades 7-9. It was established by the Mexican government in the 1960's to reach students in rural and/or hard to access areas. Through this program, students are taught lessons through a TV installed in a classroom and their learning process is aided by an on-site teaching monitor who is available to answer any questions about the program. This website has access to online resources for students enrolled in this type of schooling program. Resources such as videos and textbooks are available through this website, however, students must have been enrolled in this program since the beginning of the school year to have online access to classes and resources.	Spanish	7th-9th	All Subjects	Freely available to Mexican students enrolled for 2019-2020 school year		  	 	  

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="http://www.librosdetexto.sep.gob.mx">www.librosdetexto.sep.gob.mx</a>								
This website has online access to all free textbooks created and used by the Department of Education of Mexico. They are available for all subjects in grades Preschool through 9th.	Spanish	Preschool-9th grade	All Subjects	Freely available				
<a href="http://www.alianzaeducativa.edu.co">www.alianzaeducativa.edu.co</a>								
* THIS RESOURCE IS EXEMPLARY. The Educational Alliance has developed a collection of learning materials for students to access online. The website links are organized by grade and follow the school curriculum. Each grade links to an open google drive where materials can be viewed and downloaded.	Spanish	K-12	Science, Spanish, Math, English, Ethics, Dance, Physical Education, Philosophy, Physics, Chemistry, Technology	Free	yes			
<a href="https://www.progentis.com/">https://www.progentis.com/</a>								
Progentis is a digital citizenship and a digital literacy program. It offers units that can be used with various grade levels. Some of their resources are free during school closure but it is not clear which ones.	Spanish	Unclear	Digital citizenship and digital literacy	Paid subscription. You have to fill in a form to receive their quote. Some resources are free after you fill in the form.	Yes			

Table 1. Curriculum Resources


Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="https://intef.es/Noticias/medidas-covid-19-recursos-para-el-aprendizaje-en-linea/">https://intef.es/Noticias/medidas-covid-19-recursos-para-el-aprendizaje-en-linea/</a>								
Spain's Ministry of Education and Vocational Training INTEF (Ntl Institution of Educational Technologies & Professional Development) unit's home page, which provides resources for online learning. This resource database offers teachers, families and students information and help on different types of online resources (materials, training courses, platforms, tools, etc.). Of particular use are the privately-owned online learning platforms which teachers can choose from, such as EduClan, eTwinning, and other free online learning platforms.	Spanish, English	K-12	All	Yes	N/A	N/A	N/A	N/A
<a href="https://intef.es/recursos-educativos/recursos-para-el-aprendizaje-en-linea/">https://intef.es/recursos-educativos/recursos-para-el-aprendizaje-en-linea/</a>								
This is a sub-page of Spain's Ministry of Education and Vocational Training INTEF (Ntl Institution of Educational Technologies & Professional Development) unit's home page, which I reviewed in line 184. This site provides a wide catalogue of resources for online learning, including a link to Procomun, INTEF's open educational resources network, which includes almost 95,000 online learning resources. It also includes links to online rubrics and resources from Project EDAD for secondary students.	Spanish, English	K-12 and vocational training	All	Yes, although some of the resources the site links to may not be free.	N/A	N/A	N/A	N/A
<a href="https://contentcenter.obec.go.th/">https://contentcenter.obec.go.th/</a>								
OBEC Content Centre is an open educational resources platform developed by the Bureau of Technology for Teaching and Learning, Office of the Basic Education Commission (OBEC), Ministry of Education Thailand. This platform aims to provide learning materials that cover all 8 subject strands of primary and secondary education, and are suitable for students, teachers, teacher supervisors and the public. There are 5 main components: the Authoring Tools, Content Centre, Content Verification System, Content Management System and Local Content Server.	Thai	1-12	Thai Language, English Language, Mathematics, Science, Social Studies	Yes	-	  	 	 
<a href="http://www.trueplookpanya.com/">http://www.trueplookpanya.com/</a>								
True Plook Panya is a free digital knowledge hub developed by True Corporation, a telecommunication service provider in Thailand. The platform offers a wide range of learning content and tools that are suitable for early childhood, primary and secondary education levels. Learning materials are available in various formats, including videos of famous tutors, interactive lessons and exercises.	Thai	1-12	Thai Language, English Language, Mathematics, Science, Social Studies, Health Education, Career Development	Yes	-	 	 	

Table 1. Curriculum Resources

Abstract	Language	Grades	Subjects	Cost	Global skills	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="https://www.opec.go.th/">https://www.opec.go.th/</a>								
Digital Learning Centre is an online learning platform developed by the Office of Private Education Commission (OPEC) to provide online education to the general public and all elementary and secondary students nationwide during the coronavirus outbreak.	Thai, English	Grades 1-12, youth, adults	Thai Language, Foreign Languages, Mathematics, Science, Social Studies, Health Education, Career Development	Yes	-	1.1 CT, PS  1.2 LC	2.1	3.1  3.2
<a href="https://thaimooc.org/">https://thaimooc.org/</a>								
Thai MOOC provides lifelong learning through a wide variety of online courses, from entrepreneurship to preparing for aging. This platform was developed under the Thai Cyber University Project of the Office of the Higher Education Commission, Ministry of Education Thailand.	Thai, English	Higher education, adults	Various courses available for vocational skills training and career development.	Yes	-	1.1 CT, PS  1.2 LC, AL, KD, Ev, DL	2.1  2.2	3.1 CL, II
<a href="https://th.khanacademy.org/">https://th.khanacademy.org/</a>								
Khan Academy's mission is to provide a free, world-class education to anyone, anywhere. In Thailand, this group (Khan Academy Thai) offers primary and secondary education students video lessons in mathematics.	Thai, English	1-12	Mathematics	Yes	-	1.1 CT, PS  1.2 LC, AL		
<a href="http://www.learnbig.net">www.learnbig.net</a>								
LearnBig, initiated and developed by UNESCO Bangkok, is an open digital library designed to promote literacy and reading habits of out-of-school and marginalized children. It offers over 1,000 books and learning materials, contributed by more than 20 organizations, in Thai, Myanmar and Malay languages. In order to help teachers and parents choose appropriate contents, all books are categorized by level of difficulty.	Thai, English, Myanmar	K-12	Thai Language, English Language, Mathematics, Science, Social Studies, Health Education, Moral and Civic Studies, Islamic Studies, History	Yes	-	1.1 CT, PS  1.2 LC	2.1	3.1



Table 2. Professional Development Resources

Type of resources	Abstract	Language	Grades	Subjects	Cost	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="https://www.unicef.org/parenting/">https://www.unicef.org/parenting/</a>								
Professional development	UNICEF parenting page with resources for parents about health, wellness, nutrition, and early stimulation for children	English	Early childhood	Holistic development	Freely available	N/A	N/A	N/A
<a href="http://pdst.ie">pdst.ie</a>								
Professional development	Includes links to different e-learning platforms like Apple, Class Dojo, and others, and how to use them in teaching. Also includes lists of reliable distance learning sites, and tutorials for using digital tools.	English	K-12	Math, Reading, Science, Social Studies, Art		1.1 1.2	2.1	3.1 3.2 3.3
<a href="http://ncca.ie">ncca.ie</a>								
Professional development	These are resources directed towards teachers and administrators. They are rich but quite technical, and not something that caregivers could readily use to facilitate learning at home.	English	Early childhood, K-12	Math, Reading, Science, Social Studies, Art	Freely available	1.2	Not really	Not really - broad curriculum so these skills might be built into the curriculum itself
<a href="http://jct.ie">jct.ie</a>								
Professional development	Curricular resources for school leaders and teachers, structured around Ireland standards	English	Early childhood, K-12	Math, Reading, Science, Social Studies, Art		1.2	Not really	Not really - broad curriculum so these skills might be built into the curriculum itself

Table 2. Professional Development Resources







Type of resources	Abstract	Language	Grades	Subjects	Cost	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="http://www.welovereading.org">www.welovereading.org</a>								
Professional development	Reading program which provides training on a specific reading methodology. Seeks to create We Love Reading Ambassadors. The training is offered in-person and online. The program methodology has been internationally recognized and the founder has won several awards. Seeks to create a larger discussion and awareness about reading for pleasure in the Arab world. The organization also has a book creation division that produces reading materials for children in Arabic and has also been involved in establishing libraries so that children can access these materials easily. The focus very much seems to be on younger children (early readers) and not adolescents.	English	Early grade reading/primary. Details not given on the website	Materials in Arabic	Unclear from the website	Literacy & Communication Skills; Interpretation	The reading materials include information about social issues (environmental protection & conservation, respect for people with disabilities)	
<a href="https://teachercpd.ie/mod/page/view.php?id=11798">https://teachercpd.ie/mod/page/view.php?id=11798</a>								
Professional development	Training for teachers on how to teach online during school closures. Training focuses on how to do effective online teaching and learning, how to find good sources of educational content, how to allow for communication and collaboration online, and how to create and share your own educational content online	English	K-12	General pedagogy		 		  
<a href="http://tiny.cc/LearningintheTimeofCorona">http://tiny.cc/LearningintheTimeofCorona</a>								
Professional development	This is essentially a Google Spreadsheet, similar to this one (less comprehensive) that is curated by the Metis Collective. The spreadsheet has about 15 resources for educators, offering guidance on how to educate remotely, and for parents on how to support their children's learning. The spreadsheet is limited and seems like a very organic initiative, but not something systematic that addresses the needs of a diverse set of parents or educators.	English	No grade in particular	Mainly offers some guidelines on supporting learning during COVID (e.g. creating routines, indoor activities for children, transitioning to online instruction, some WhatsApp groups for educators)	Free Google Spreadsheet	N/A	N/A	N/A

Table 2. Professional Development Resources



Type of resources	Abstract	Language	Grades	Subjects	Cost	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="http://aaghi.aiou.edu.pk/">http://aaghi.aiou.edu.pk/</a>								
Professional development	Allama Iqbal Open University in Islamabad, Pakistan has uploaded a list of manuals to conduct virtual classes in Spring 2020.	English	All grades		Free	N/A	N/A	N/A
<a href="https://www.vroom.org/">https://www.vroom.org/</a>								
Professional development	Platform and app with tips on how to integrate learning into household activities such as bath time, cooking, or other chores. Targeted towards caregivers of children below age 5	English	Early childhood	Holistic development, science, math, motor skills, music, language, literacy	Freely available			
<b>Google Teach From Home</b>								
Professional development	Google launched Teach from Home, a central hub to support distance learning. The website includes training, tools and resources from across Google for Education to help teachers continue to teach even if they aren't in the classroom. The platform helps teachers make decisions about teaching from home with video, without video, how to make distance learning accessible to all, how to keep students engaged, and how to keep in touch with other teachers. The toolkit also offers a community of practice on Twitter via #teachfromhome	English	K-12 and Higher Ed	Platform		Platform	Platform	Platform
<a href="https://www.learninginpractice.org/moving-learning-online?preview=true">https://www.learninginpractice.org/moving-learning-online?preview=true</a>								
Professional development	Moving Teaching & Learning Online is a professional development resource from the Centre for Learning in Practice of the Carey Institute for Global Good. The site provides resources, virtual events, and online forums. Registration is required, but is free of charge.	English	teacher professional development	conducting peer group activities; differentiation in online learning; equity, access and inclusion; online assessments; student motivation	Free. Registration required.			

Table 2. Professional Development Resources

Type of resources	Abstract	Language	Grades	Subjects	Cost	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="https://learning.careyinstitute.org/">https://learning.careyinstitute.org/</a>								
Repository-teacher PD	The Centre for Learning in Practice of the Carey Institute for Global Good offers online professional development courses for practitioners. Courses focus on a variety of issues, including those relevant to crisis schooling, such as how to move courses online, trauma-informed practices, inclusive education and social-emotional learning. Registration for most courses is free; the course on educating migrant and refugee students costs 10 USD. The courses are self-guided and asynchronous.	English, Arabic, Dutch, Danish	teacher professional development	sustainable learning, trauma-informed practice, moving courses online, inclusive early childhood education, socio-emotional learning, supporting refugee students	registration and most content is free, some content is paid			
<a href="https://www.innove.ee/uudis/info-ja-nouanded-vanematele-oma-lapse-toetamiseks-covid-19-pandeemia-ajal/">https://www.innove.ee/uudis/info-ja-nouanded-vanematele-oma-lapse-toetamiseks-covid-19-pandeemia-ajal/</a>								
Professional development	Description of Organisation given below (Innove). This specific page provides a number of helpful links to parents regarding supporting their children's' academic and socio-emotional learning.	Estonian	not specified (but for younger children within the 5 - 15 age bracket)	language (Estonian)	free	1.2	2.1 EP, Tr	N/A
<a href="https://www.facebook.com/groups/278900333094971/?ref=group_header">https://www.facebook.com/groups/278900333094971/?ref=group_header</a>								
Professional development	Facebook group managed by the Estonian Association of Educational Technologies. We share advice and experience on how to conduct home-schooling using technology. Our focus is on technology, or how technology helps students, teachers and parents during distance learning	Estonian	not specified	providing and sharing resources for distance learning using technology	free	N/A	N/A	N/A
<a href="https://www.hitsa.ee/e-ope-korduma-kippuvad-kusimused">https://www.hitsa.ee/e-ope-korduma-kippuvad-kusimused</a>								
Professional development	The website serves as a repository of all e-learning sources for ICT education. The role of the Information Technology Foundation for Education (HITSA) is to ensure that the graduates at all levels of education have obtained digital skills necessary for the development of economy and society and the possibilities offered by ICT are skilfully used in teaching and learning, which helps improve the quality of learning and teaching at all levels of education.	Estonian	not specified	ICT	free	N/A	N/A	N/A

Table 2. Professional Development Resources

Type of resources	Abstract	Language	Grades	Subjects	Cost	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="http://www.continuitepedagogique.org">www.continuitepedagogique.org</a>								
Professional development	A website created by educators and other civil servants ("a spontaneous collective") in response to schools closing due to COVID19. Its main goal is to mobilise practitioners in various fields to assist teachers across the nation in digitalizing teaching tools. Services for teachers include an online chat helpline, PD webinars, and individual help to develop digital pedagogical resources.	French	K-12		Freely available			
<a href="http://solidarite.edtechfrance.fr/">http://solidarite.edtechfrance.fr/</a>								
Professional development	EdTech France is an association of over 250 French companies that promote lifelong learning through digital pedagogy. In light of the pandemic, all of its partners have made their online resources available for free. Solidarité EdTech France serves as a search engine where educators and learners (of all levels) can find relevant resources and courses. Services include distance learning, resource development, communication with learners, remote test taking, language learning, etc.	French	K-12, University, Teacher Training, Professional Development	Any	Freely available during the pandemic	Any	Any	Any
Quipper School: <a href="https://www.quipper.com/id/school/teachers/">https://www.quipper.com/id/school/teachers/</a>								
Professional development	Provide learning resources for educators and schools to monitor students assignments online, learning videos, worksheets from March 17 onwards	Indonesian	K-12		Free access			
<a href="http://campustrilema.org">campustrilema.org</a>								
Professional development	Campus Trilema is an online professional development platform for teachers. They offer online master's degree program and certificates for learning leaders, executive functions, and healthy habits. This would be a useful resource for any teachers looking to boost their credentials during this time at home but has no immediate added value for delivering online learning to students.	Spanish	For teachers	Teacher Professional Development and Certification, Health & Well-Being, Learning Leaders, Executive Functions	No, the online courses cost money.			

Table 2. Professional Development Resources




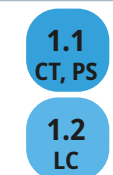


Type of resources	Abstract	Language	Grades	Subjects	Cost	Cognitive Skills	Inter-personal skills	Intra-personal skills
<a href="http://www.knotion.com">www.knotion.com</a>								
Professional development	This is a program available to schools, parents, students, and "coaches" who are interested in incorporating design thinking into their pedagogical model and curriculum.	Spanish and English	Unclear	Unclear	Requires payment and an iPad.			
<a href="http://www.dlit.ac.th/home.php">http://www.dlit.ac.th/home.php</a>								
Professional development	Distance Learning Information Technology (DLIT) is an open educational resources platform developed for the Thai Ministry of Education by the Office of Basic Education Commission. The platform provides comprehensive learning content and tools to support lesson planning, pedagogy, classroom management, learning assessment as well as professional teacher development. Key features of the platform include the DLIT Classroom, Resources, Digital Library, Professional Learning Community and Assessment. Learning materials are available in all subjects of the basic education curriculum, and suitable for primary and secondary school students, teachers and parents.	Thai	1-12	Thai Language, English Language, Mathematics, Science, Social Studies	Yes			

Table 3. Tools

Abstract	Language	Cost
<u>Microsoft OneNote</u>		
<p>Microsoft OneNote is digital note-taking app in the Microsoft Office 360 Suite. The program allows users to store, tag, and mark-up of various mediums of digital content including word documents, slide decks, audio notes, and other mediums. Contents can be clustered into pages, workbooks, and sections. The platform can foster multi-user collaboration among users who also have OneNote. Users can gather and share users' notes, drawings, screen clippings, and audio commentaries. Notes can be made directly in the OneNote environment and shared with other OneNote users over the Internet or a network much like Google docs. One example of OneNote application is uploading all course slide decks into one OneNote "Notebook" this will allow the learner to keep all slides related to one course in one place and to mark-up the slides by making notes directly on the slides.</p>	Multi-lingual	This is included in a Microsoft Office 360 Suite.
<u>Microsoft Teams</u>		
<p>Microsoft Teams offers chat, meet, call and collaboration features integrated with Microsoft Office software and is therefore suitable for classwork, teamwork and management.</p>	Arabic, Bulgarian, Chinese (Traditional/Simplified), Czech, Danish, Dutch, English (US/UK), Finnish, French, French (Canada), German, Hebrew, Hungarian, Icelandic, Italian, Japanese, Korean, Norwegian (Bokmal), Polish, Norwegian (Nynorsk), Portuguese (Brazil/Portugal), Russian, Spanish (Spain/Mexico), Swedish, Thai, Turkish, Welsh	Yes
<u>Ed Dojo (ClassDojo)</u>		
<p>ClassDojo is a free communication platform which connects teachers with students and parents to create classroom communities. Teachers can encourage students for any skill or value — whether it's working hard, being kind, helping others or something else. Students can showcase and share their learning by adding photos and videos to their own portfolios. The platform helps teachers get parents engaged by sharing photos and videos of wonderful classroom moments. Using the ClassDojo app teachers can access a teacher toolkit which allows them to make various types of virtual activities such as: generate random groups of students, use the classroom noise monitor, set a classroom timer, facilitate discussion with think pair share prompts, display activity directions, turn on background music, and do other things which engage students both in the classroom and virtually.</p>	Translates messages into 30 languages instantly.	Yes this is a free tool
<u>Zoom</u>		
<p>Zoom is a video communications tool with a cloud platform for video and audio conferencing, collaboration, chat and webinars. It can be used across mobile devices, desktops, laptops, and telephones. Its features like chat, screen share, annotate, whiteboard, polling, breakout rooms, raising the hand, and managing participants lend themselves to creating engaging virtual and hybrid classrooms and collaborating on projects. Users have the option to record sessions. Here is a comprehensive guide for teaching using Zoom - <a href="https://zoom.us/docs/doc/Comprehensive%20Guide%20to%20Educating%20Through%20Zoom.pdf">https://zoom.us/docs/doc/Comprehensive%20Guide%20to%20Educating%20Through%20Zoom.pdf</a>. These are training tutorials - <a href="https://support.zoom.us/hc/en-us/articles/206618765-Zoom-Video-Tutorials">https://support.zoom.us/hc/en-us/articles/206618765-Zoom-Video-Tutorials</a>. Teachers and students develop cognitive and SEL skills as they navigate the virtual environment. The site supports nine languages.</p>	English, Chinese (Simplified and Traditional), French, German, Japanese, Portuguese, Russian, Spanish, Korean.	It has a Basic Plan that is free, but limited to 40-minute meetings for two or more participants. For primary and secondary schools affected by the Coronavirus, Zoom has removed the 40-minute time limit on the free Basic Plan.

Table 3. Tools

Abstract	Language	Cost
<a href="https://dolly.economia.unimore.it/2019/">https://dolly.economia.unimore.it/2019/</a>		
The Dolly portal [Didattica On Line] is an online teaching platform for use with university students. The platform allows teachers to upload student support materials for classroom teaching, notes, presentations, recordings, etc. Dolly can also be used for student interaction in online forums, and for formative and evaluative assessment in real time.	Italian	
<a href="#">Screencastify</a>		
Screencastify is a Google Chrome extension which is free. It allows over 12 million users to easily record, edit, and share videos. This tool can be used by teachers in a flipped classroom approach in that teachers can provide verbal student feedback, explain assignments, and create full or bite-size lessons using the screencast and voiceover capabilities of the tool. Screencastify provides several training videos for teachers and students for free.		Basic features are free for 5 minute (per video) videos including: record your screen and webcam, trim videos, save to Google Drive, annotation tools, publish to YouTube. Unlimited video recording is \$49.00
<a href="https://rang.edunet.net/">https://rang.edunet.net/</a>		
Wedurang is a classroom-based online community where teachers can share learning materials and assignments with students and conduct group discussions.	Korean	This website is free but sign-up is required.
<a href="#">SEQTA</a>		
SEQTA is a Learning Management System made in Australia designed for teacher at the K-12 level.		This is a paid service targeted at school leaders.
<a href="#">Moodle</a>		
Moodle is an online learning platform designed to provide personalized learning environments. It is free and uses open source software. The target users are educators, administrators and learners. Moodle can be used with downloaded software or online, and it is available on a variety of devices. Moodle prides itself on being able to support the needs of small classes and large organisations. It is used by a variety of entities, including Shell, London School of Economics, and the Open University. In terms of skills, as Moodle is a learning platform it can be utilized to support cognitive as well as socio-emotional skills. It can be used by a wide range of learners, from primary students up until adult learners. It is available in 120 languages.	Available in more than 120 languages.	Free
<a href="#">Seesaw</a>		
Although, Seesaw is described as a "student-driven digital portfolio" or a "platform for student engagement", it is being used around the world by schools to assign minilessons and activities for students during school closure. Accessible via the web or an app, it allows teachers to find or create activities for their class (similar to more traditional handouts), which students can then complete on their phones by taking pictures, recording videos, using drawing tools, typing, etc. Family members have access to their child's work and can leave comments and encouragement. Activities and curricula can be shared / streamlined across schools, school networks, and districts.	English, Available in 55 languages	Free for individual teachers (up to 10 classes); premium for schools



Table 3. Tools

Abstract	Language	Cost
<u>Google-Suite</u>		
<p>G Suite for Education is a cloud-based suite of free tools and features tailored for schools and home schools to manage educational material from anywhere on any device. It includes Google Classroom, as well as Google's core services, including Gmail, Calendar, Docs, Sheets, Forms, Slides, Hangouts, and more. Additional services include products like Chrome and YouTube. Following are the features of each tool.</p> <p>Classroom - designed for teachers to create classes, distribute assignments, give quizzes, and communicate with students. Docs, Sheets, and Slides - collaborate, share feedback, and work together in real-time on documents, spreadsheets, and presentations. Forms - create forms, quizzes, and surveys to collect and analyse responses with the help of machine learning. Jamboard - a cloud-based smartboard where you can sketch and collaborate on an interactive canvas. Gmail - create school- or university-wide email system, or to exchange secure emails with classes. Drive - store and organize assignments, documents, or class curriculum securely and access them on any device. Calendar - share calendars or create joint schedules with your institution or class members. Sites - an easy-to-use web builder to create websites, host course curriculum, and build development skills. Hangouts Meet - connect with students virtually through secure video calls and messaging. Groups - class forums for communication and conversation. Vault - add students, manage devices, and configure security and settings, so your data stays safe. G-Suite for Education can support cognitive and SEL skills, as it is a learning platform. Its admin consoles can support 28 languages, and other apps can support more than 120 languages. Here are some helpful website - Resources for teachers - the teacher centre <a href="https://teachercenter.withgoogle.com/">https://teachercenter.withgoogle.com/</a> Website - <a href="https://edu.google.com/intl/en_ca/products/gsuite-for-education/?modal_active=none">https://edu.google.com/intl/en_ca/products/gsuite-for-education/?modal_active=none</a></p>	<p>For Google products there are over 120 language. For the admin console the languages are Arabic, Chinese (Simplified), Chinese (Traditional), Dutch, English (US), French (France), German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish, Turkish, Czech, Danish, Filipino, Finnish, Hebrew, Hindi, Hungarian, Indonesian, Norwegian, Thai, Ukrainian, Vietnamese.</p>	<p>It is free for schools that qualify. Here are the details to qualify - <a href="https://support.google.com/a/answer/134628">https://support.google.com/a/answer/134628</a></p>
<u>ManageBac</u>		
<p>ManageBac is the leading planning, assessment, and reporting platform for the International Baccalaureate (IB) Primary Years Program (PYP) and Middle Years Program (MYP) and Diploma schools. This platform is not meant for public use but provides schools with a unified system on a mobile-ready interface that offers a seamless and integrated experience for all coordinators, teachers, students, parents to manage all aspects of the IB Program.</p>	<p>English, Spanish and Chinese (Simple) for schools, as well as Arabic, Japanese, French, and Chinese (Traditional) for parents.</p>	<p>It is not free, annual subscriptions are done at the school level.</p>
<a href="https://moodle.org/">https://moodle.org/</a>		
<p>Moodle is a free, open-source online learning platform. Moodle allows teachers to create and manage courses and assessments. Moodle is mobile friendly, with about 20 different activities types available, and allows teachers to add plugins.</p>	<p>Available in more than 120 languages.</p>	<p>Freely available</p>
<u>Google Classroom</u>		
<p>Google Classroom is a free web service designed for teachers to create classes, distribute assignments, give quizzes, and communicate with students. It combines Google Drive for assignment creation and distribution, Google Docs, Sheets and Slides for writing, Gmail for communication, and Google Calendar for scheduling. It differs from Google's G Suite for Education in that home schoolers, tutoring programs, lifelong learners, and others without the G Suite can access the Google Classroom from their personal Gmail accounts or from outside of the G Suite domains. Google Classroom can support cognitive and SEL skills as it is a learning platform. The admin consoles support 28 languages, and Google docs and slides support 62 languages. This is the classroom website - <a href="https://edu.google.com/products/classroom/?modal_active=none">https://edu.google.com/products/classroom/?modal_active=none</a></p>	<p>The admin consoles support 28 languages, and Google docs and slides support 62 languages.</p>	

Table 3. Tools

Abstract	Language	Cost
<a href="http://pronote.0640055m.ac-bordeaux.fr/pronote/professeur.html?login=true">http://pronote.0640055m.ac-bordeaux.fr/pronote/professeur.html?login=true</a>		
Pronote is a software for schools to record administrative data, create and share report cards, communicate with families, share online resources with students, give online tests, etc. This resource is not free, nor meant for public use but it is helpful for teachers whose schools are already using it.	French	Requires yearly subscriptions (at the school level)
<a href="#">Quizlet</a>		
A tool for students to make their own flashcards. Furthermore, they can browse other open source flashcards.	English	Free
<a href="#">Kahoot</a>		
Kahoot! is a game-based learning platform that can be used by parents and teachers to create games for learning. There is a resource back of games indexed by topic and grade level. They also offer a reading app (Poio by Kahoot) for students in grade K-3 to learn to read at their own pace and a math app (Dragonbox) for students in grades K-3. The website offers self-paced games (asynchronous) and collaborative games (synchronous).	English (some games are available in Spanish and French)	Free with a premium option for teachers who want to create classes within Kahoot.
<a href="#">Nearpod</a>		
Nearpod is an instructional platform that merges formative assessment and dynamic media for collaborative learning experiences. It is designed as a platform for teachers to create interactive online lessons that can be taught in a synchronous or asynchronous space. It integrates smoothly with many LMS including Canvas, Google Classroom, EdPuzzle and Seesaw. It provides teachers with student engagement dashboards for every lesson. It has multiple resources for teachers to create lessons. Students can easily access the lessons created by the teachers and can collaborate with each other in synchronous and asynchronous ways. There is a bank of ready-made lessons other teacher have created.	English	Free for teachers with a premium paid subscription for schools.
<a href="#">FlipGrid</a>		
Flipgrid is a social-learning video platform. It allows teachers and parents to create grids for students to record or upload a video. Students can interact with each other in this asynchronous space via their videos and they can comment, like, respond to, or provide feedback to each other. There is the option of connecting with schools around the world.	English	Free
<a href="http://clicseguro.sep.gob.mx/">http://clicseguro.sep.gob.mx/</a>		
This website offers practical advice and lessons for young children and teenagers to use technology and online resources in a safe and responsible way. This is primarily directed towards students ages 5-15 so that they can learn how to steer clear of certain high risk situations that they can run into on the web or through the use of smartphones, tablets, videogames, and computers.	Spanish	Freely available

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