Report

Overview of emerging countrylevel response to providing educational continuity under COVID-19

What's working? What isn't?

Authors

Chris Joynes, Education Development Trust

Emma Gibbs, Education Development Trust

Kate Sims, Education Development Trust

Input from Rob Rodney (UK Department for Education) and Jamie Proctor (UK Department for International Development and the EdTech Hub)

April 2020

Part of our EdTech and coronavirus (COVID-19) series: edtechhub.org/coronavirus

This work is licensed under a Creative Commons Attribution 4.0 International License





Executive summary

Scope of study

This report describes national policy and strategy responses for ensuring educational continuity in the context of widespread school closures implemented as a result of the COVID-19 pandemic. The study focuses on a selection of high-income and low-income contexts deemed to be of greatest interest to the EdTech Hub (including key stakeholders from DfE and DfID). The selected countries include:

- Asia: China, Japan, Singapore, South Korea
- South Asia: Bangladesh, Pakistan, Nepal
- Sub-Saharan Africa: Kenya, Rwanda, Uganda, Ghana

The evidence highlights the current, and rapidly changing status of national policy and strategy responses to date. The report examines key themes emerging form policy and strategy response and reflects on these: which are working, and which are not working so well? The nature of the evidence and material available at this stage of the crisis makes firm conclusions hard to reach. Despite this the report concludes with a set of recommendations supported by the literature as it stands.

Key themes

Policy and strategy development are nascent and prioritising access following school closure

At a global level, most countries affected by the COVID-19 pandemic are in the process of formulating and implementing their initial responses in terms of educational provision. The policy/strategy landscape is best described as emerging and fluid, and the available documentation that describes this is 'grey' and often lacks detail. It is difficult to make categorical statements about what is and is not working.

Despite this, it is possible to get a sense of the range of approaches that governments have taken as they attempt to ensure educational continuity. Perhaps unsurprisingly there is, at this stage in the crisis response, there is little documentation about policy and planning above and beyond the immediate challenge of providing access to education. Notably, this review found little material concerned with how states are designing policy to support to teachers, protect the most vulnerable pupils and continue to ensure that safeguarding is taken seriously.

Centralised systems are better able to take swift action

The resources collected in this review suggest that more centralised systems have been able to mobilise their responses extremely quickly and have utilised their ability to take rapid action to enact substantial policy changes at short notice. China, South Korea and Uganda are good examples of this approach.

These centralised approaches do not necessarily come at the expense of a degree of local autonomy. China and South Korea have provided a central educational platform to support distance learning with resources and some guidance and/or training but schools and teachers have autonomy to plan and deliver remote learning to suit their context, within the guidelines provided. The balance of central direction and action combined with locally delivered support at the level of the school is an important aspect of this approach.

Multi-partner approaches to delivery, including in partnership with private sector on ICT infrastructure seem important

Multi-level and cross-sectoral partnerships appear to be key to a successful and rapid roll-out of remote learning. In general the focus of such partnerships has been on: improving communications infrastructure; providing students with (or loaning them) EdTech equipment such as tablets; subsidising internet access or mobile data; developing educational content or making existing content freely available and; developing new educational platforms (for example, mobile apps).

Partnerships with multilateral organisations seem to have played an influential role in decision-making in low income countries during the immediate response.

Delivery mechanisms for remote learning, matched to capacity, existing infrastructure and user access to technologies requires careful consideration

Many governments seem are leaning towards high-tech solutions over low- or no-tech solutions. Most countries, particularly higher income countries, are not prioritising anything other than online education, except in one or two cases where TV broadcasting is being used to ensure the hardest to reach have access to education. Even then, this appears to be a short-term solution, with a move to online being favoured.

Swift roll-out of educational content accompanied by clear messaging

The rapid decision-making and action taken by many governments has been impressive. Approaches to communicating this roll-out have varied. In China, large scale tele-conferences to communicate the roll-out of online learning contributed to consistency of messaging. In other countries, including several in sub-Saharan Africa, where communication of new policy initiatives has been through social media channels, the messaging has been less clear.

Beyond access to remote education

Our document review uncovered little focus on the **quality of education**. The priority has been access. A next stage emphasis on quality of home schooling will need to follow if school closures are protracted. How to keep children safe, how to support staff, how to engage families and parents, how to tackle equity; these are all important areas that have not, as yet, received much attention.

Measuring the impact of policy

There is an urgent need to review the efficacy of approaches to the monitoring and evaluation of the impact of remote learning policies, both for ongoing decision making and longer-term learning. Programme pilots, phasing of scale up and the introduction of dedicated task-forces are all methods in use currently by governments responding to the COVID-19 crisis.

Recommendations

- Learn from policy and strategy development around the world and adapt policy based on data
- Promote access and reduce costs to learners
- Prioritise or move towards centralised action combined with scope for an element of local autonomy
- Plan for both the immediate and the long term
- Ensure remote learning plans are based on the most limited estimate of technological infrastructure and make necessary system upgrades
- Strive for clarity, decisiveness and support in government action and coherence in donor and geographic coordination
- Support cross-sectoral collaboration and alliances
- Consider education equity in relation to all forms of remote education
- Engage parents and families in home-based education, while recognising that many disadvantaged learners lack effective family support
- Adopt a learning-focused and adaptive mindset

Evidence and policy

Scope of research

This report analyses national policy and strategy designed to ensure educational continuity in the context of widespread school closure imposed by the COVID-19 pandemic. The study focuses on a selection of countries including high-income and low-income contexts. Grouped regionally, the selected countries include:

- Asia: China, Japan, Singapore, South Korea
- South Asia: Bangladesh, Pakistan, Nepal
- Sub-Saharan Africa: Kenya, Rwanda, Uganda, Ghana

Based on analysis of the current status of national policy and strategy, as well as evidence of planning and implementation for educational continuity, the report:

- draws out implications for policy makers
- provides commentary on national legislative governance structures (for example, national, federal and/or provincial government); evidence of pre-existing infrastructure for delivery of remote learning; the role of multi-stakeholder partnerships for implementation, including with the private sector; and, in the context of low- and middle-income countries (LMICs), the role of multilateral and bilateral partners in supporting the development and provision of educational continuity responses
- comments on the proposed delivery mechanisms for remote learning currently being adopted at national level, drawing out some of the implications of these approaches, particularly in terms of equity and access.
- concludes with reflections on gaps within existing policy and strategy.

Commentary on evidence

At a global level, the majority of affected countries are currently in the process of formulating their initial responses to mitigate the impact of the COVID-19 pandemic on education. For most countries, the UK included, school closures have only been in effect for the last 2-3 weeks, and most education systems do not appear to have anticipated or prepared for such measures. The policy and strategy landscape for COVID-19 educational responses – both globally and nationally – is best described as emerging and fluid.

The most valuable sources for gathering relevant and up-to-date information include: a series of online knowledge hubs, digital resources and blogs specific to the COVID-19 pandemic; organisational websites, press releases, and social media accounts; plus a range of national digital news media outlets.

Resources that have proved particularly useful include:

- Online knowledge hubs:
 - UNESCO COVID-19 Education Response resource hub: https://en.unesco.org/covid19/educationresponse
 - UNICEF COVID-19 resource hub: https://www.unicef.org/coronavirus/covid-19
 - Inter-agency Network for Education In Emergencies (INEE) COVID-19 resource hub: https://inee.org/covid-19/resources
 - ReliefWeb COVID-19 resource hub: https://reliefweb.int/topics/covid-19
 - Global Education Monitoring (GEM) Report World Education Blog: https://gemreportunesco.wordpress.com/
 - Wikipedia page on Coronavirus impact on education: https://en.wikipedia.org/wiki/ Impact of the 2019%E2%80%9320 coronavirus pandemic on education
 - Hundred COVID-19 Education Response resource hub: https://hundred.org/en/collections/quality-education-for-all-during-coronavirus
 - World Bank COVID-19 Remote Learning resource hub: https://www.worldbank.org/en/topic/edutech/brief/edtech-covid-19
- For gathering more detailed information on state and multilateral strategic response planning at country-level, UNICEF and other agency country offices have proved particularly valuable as resources (particularly in the context of LMICs).
- For gathering additional information on the implementation of educational responses at country level, social media has proved to be a helpful and up-to-date resource for identifying what measures national governments, NGOs, INGOs and other partners are currently undertaking to support home learning. Specifically, this includes Twitter and, to a lesser extent, Facebook.

There is, as yet, no substantial body of published literature that provides a comprehensive overview of system-level measures taken to date, either globally or nationally. There is also no published evidence on the impact or effectiveness of the responses that have been implemented. Given this, any statements regarding what appears to be working in policy and strategy terms is based largely on evidence of progress and action, rather than evidence of impact and outcome.

Themes

Based on information and evidence gathered themes have emerged in relation to national policy and strategy for educational continuity planning and implementation.

1. National policy and strategy for educational continuity planning in response to COVID-19 is at an nascent stage worldwide

For the majority of countries worldwide, the UK included, school closures have only been in effect within the last 2-3 weeks, and the majority of education systems did not anticipate or prepare for such measures. In this context, the policy and strategy landscape for COVID-19 educational responses – both globally and nationally – is best described as emerging and fluid. Many countries are still in the process of formulating their initial responses to the impact of the pandemic on education, and in terms of educational delivery, new measures being taken on an emerging day-by-day and week-by-week basis.

In Bangladesh, for example, following school closures on 18 March, Ministries of Education (MoE) and Primary & Mass Education (MoPME) are still preparing comprehensive COVID-19 Response Plans¹. Both institutions have promoted the delivery of home schooling via a television-based national remote schooling model which has been in operation since 28 March. Similarly, the Kenyan Ministry of Education has not published an educational response plan but in partnership with the Kenya Institute of Curriculum Development (KICD), has implemented a multi-platform home schooling model using television, radio, online resources and, in some cases, live video-schooling².

In Uganda, although further detail is required on the immediate education response plan, the Ministry of Education and Sports is currently working with UNICEF to develop an accelerated learning programme to benefit all learners when schools reopen³. The Ministry of Education and Sports have announced plans to shorten school holidays to make up for lost time as a result of the disruption caused by the disease⁴.

In other contexts, available policies or accounts of interventions lack detail. In Nepal the government has produced the COVID-19 Education Cluster Contingency Plan, which highlights

¹ Personal communication from Golam Kibria, Education Head of Section, DfID Bangladesh M-Kibria@DFID.gov.uk

² Kenya Ministry of Education (2020). Twitter post. [Online]. Accessed at: from: https://twitter.com/EduMinKenya/status/1240221103794069504; China News, (2020). Feature: Kenyan students find respite in digital learning amid COVID-19 outbreak. 14 April 2020.[Online]. Accessed at: http://www.china.org.cn/world/Off_the_Wire/2020-04/14/content_75927622.htm

³ UNICEF Uganda (2020). UNICEF scales up support in 145 countries to keep children learning, as COVID-19 forces majority of schools worldwide to close. Press release. 26thMarch 2020. [Online]. Accessed at: https://www.unicef.org/uganda/press-releases/unicef-scales-support-145-countries-keep-children-learning-covid-19-forces-majority

⁴ Ministry of Education and Sports Uganda. Twitter post. 5 April 2020. [Online] Accessed at: https://twitter.com/Educ_SportsUg/status/1246696830810939393

a multi-media approach to delivery of remote learning and school support⁵. In terms of deliverables, the plan prioritises the initial need for a comprehensive assessment of nationwide technological capacity before this can be implemented⁶.

In Japan, while school closures have been in force since 24 February this has taken the form of an extended holiday, rather than a transition to home schooling. Japan only announced an intention to keep schools closed on 7 April and reports state that their policy and planning with regards to online schooling is still emergent⁷. Similarly, in Ghana, details and measures to support home-based learning have not yet been published, which could be a result of a scheduled four-week holiday period that started in April⁸.

It is important that the emerging policy and strategy developments around the world are tracked in order to identify effective approaches for staging interventions and preparing for a return to school. It is also important to draw on the evidence of approaches used by those countries who were impacted by the pandemic earlier.

China's experience will be particularly valuable. In their early response to school closures, the Chinese Ministry of Education focused on establishing the delivery of remote learning via online mechanisms⁹. Their approach to implementation was based on three integrated priorities: i) ensuring the right teaching and learning content was available; ii) ensuring that this content could be accessed by users for free; and iii) ensuring that appropriate delivery infrastructure and bandwidth was in place to guarantee large numbers of students could access this content. The Chinese government worked cross-governmentally and with internet providers and support companies to ensure that the selected online education platforms had their systems upgraded to handle the increased traffic¹⁰.

The Chinese authorities sought to refine this basic delivery model over time. Further strategic interventions have been identified based on a multifaceted approach intended to ensure successful online teaching through the provision of seven inter-related elements. Widely recognised as key enablers in remote online schooling, these include: i) a reliable ICT-based

⁵ Nepal Education Cluster (2020). *COVID-19 Education Cluster Contingency Plan, 2020, March 2020.* Kathmandu: Nepal Education Cluster.

⁶ Ibid.

⁷ The Minchi (2020). Editorial: Amid school closures, Japan must quickly utilize online teaching tools. The Minchi. 13 April 2020. [Online]. Accessed at: https://mainichi.jp/english/articles/20200413/p2a/00m/0na/005000c

⁸ Public Holidays Global (2020b). Ghana School Holidays 2020. [Online]. Accessed at: https://publicholidays.africa/ghana/school-holidays/

⁹ Huang et al. (2020). Handbook on Facilitating Flexible Learning During Educational Disruption: The Chinese Experience in Maintaining Undisrupted Learning in COVID-19 Outbreak. Beijing: Smart Learning Institute of Beijing Normal University https://inee.org/system/files/resources/Handbook-on-Facilitating-Flexible-Learning-in-COVID-19-Outbreak 0.pdf

¹⁰ UNESCO (2020a) How is China ensuring learning when classes are disrupted by coronavirus? 19th February 2020 [online]. Accessed at: https://en.unesco.org/news/how-china-ensuring-learning-when-classes-are-disrupted-coronavirus

communications infrastructure; ii) co-ordinated access to suitable digital learning resources; iii) user-friendly digital learning tools; iv) pedagogic and instructional design based on effective learning methods; v) co-ordination of online delivery by instructional organisations; vi) provision of effective support services for teachers and learners; vii) close cooperation between governments, enterprises and schools¹¹.

2. National governance and legislative structures impact on strategic decision-making

At a national level, the legislative framework for governance may impact on the speed and effectiveness with which countries are developing and implementing their educational continuity plans. Those with strong centralised legislative bodies or decision-making committees (for example, China; South Korea; Singapore; Bangladesh; Uganda) currently have more fully developed strategies and implementation plans, arguably as a result of swiftly moving bureaucratic powers and substantial institutional capacity. Those with federal, provincial, or decentralised legislative models (for example, Japan, Nepal, Pakistan) have markedly less developed policies and strategies, as well as less evidence of actual delivery of remote education.

Japan has been subject to criticism for a slow response to COVID-19¹². The government's policy response is hindered by Japanese law, which prohibits central government from putting in severe lockdown measures¹³. Any central government policy announcements are primarily offered as guidance to individual prefectures in order to support decision-making at the subnational level. In Pakistan, while the Federal Ministry of Education and Professional Training (MoEPT) has identified continuity of learning and communication as priority areas in the first phase of the response to the COVID-19 pandemic, evidence suggests that decision-making and strategic responses to educational continuity have taken place at the level of provincial government rather than federal government¹⁴.

Conversely, China's largely centralised system (politically, at least) has allowed for swift action. With initial policy and planning happening over an intensive two-week period of central government engagement with public and private sector organisations, and followed by a series of tele-conferences to filter plans for implementation down to the local level, including

¹¹ Huang et al. (2020).

¹² Pesek, W. (2020). Japan's coronavirus response is too little, too late. Washington Post. 10 April 2020. [Online]. Accessed at: https://www.washingtonpost.com/opinions/2020/04/10/japans-coronavirus-response-is-too-little-too-late/

¹³ McCurry, J. (2020). Japan declares state of emergency over coronavirus. The Guardian. 7th April 2020. [Online]. Accessed at: https://www.theguardian.com/world/2020/apr/07/japan-shinzo-abe-declares-state-of-emergency-over-coronavirus

¹⁴ Wikipedia (2020b). 2020 coronavirus pandemic in Pakistan. [Online]. Accessed at: https://en.wikipedia.org/wiki/2020_coronavirus_pandemic_in_Pakistan

communications to school and teacher level¹⁵. Indications from the evidence available suggest that this was largely effective for getting the system of online schooling 'up and running'. Less clear is the government's strategy for subsequently filling gaps in content, equity of provision or improving quality. It is also unclear whether these refinements have been managed at a national or local level.

3. Support through multilateral agencies and donor coordination is key to supporting decision-making in LMICs

Within LMIC contexts, the active role of multilateral agencies and donor-coordination groups appears key to the process of supporting government and other stakeholder institutions to develop and implement co-ordinated strategies for educational continuity. Multilateral organisations, particularly UNICEF, are partnering with education ministries in Kenya, Rwanda, Uganda and Bangladesh, with evidence of reasonable progress in strategic planning and/or implementation for educational continuity. In these contexts, there is also evidence of emerging donor-led models for organisational coordination through committees, but this is not always the case. In Nepal donor support for the government is co-ordinated through the Education Cluster, and the Cluster's subsequent plans for educational provision under lockdown required substantial strengthening¹⁶.

In Uganda, the government response seems to have benefited from coordinating the response with donors and development partners by extending the coverage of support that is available for continuous learning, especially with regard to low- and no tech measures¹⁷. The Belgian Development Authority, **Enabel**, committed to support the National Teachers' Colleges for continuous personal development with online training to boost ICT skills and computer-based learning; Teach for Uganda have begun 'SMS Teaching' to reach learners without access to internet; newspapers are including educational content as pull-outs; and UNICEF are working with other partners to develop radio-based learning materials and online learning platforms¹⁸.

UNICEF are working with the Rwanda Education Board (REB) and numerous other partners to develop, produce and air 48 hours of radio lessons that are aligned with the national

¹⁵ UNESCO (2020a). How is China ensuring learning when classes are disrupted by coronavirus? 19th February 2020 [Online]. Accessed at: https://en.unesco.org/news/how-china-ensuring-learning-when-classes-are-disrupted-coronavirus

¹⁶ Nepal Education Cluster (2020).

¹⁷ UNICEF Uganda (2020).

¹⁸ Enabel in Uganda (2020). Twitter post. 15 April 2020. [Online] Accessed at: https://twitter.com/EnabelinUganda/status/1250323073758195712; Examples of solutions for reaching students with limited access to the internet can be found in Aladin, K. (2020). Reaching Children & Students in Remote Locations. Hundred. [Online] Accessed at: https://hundred.org/en/innovations/reaching-children-students-in-remote-locations; Mutegeki, G. (2020). COVID-19: How to keep your child engaged during the lockdown. New vision. 6 April 2020. [Online] Accessed at: https://www.newvision.co.ug/new_vision/news/1517608/covid-19-child-engaged-lockdown; UNICEF Uganda (2020)

curriculum, and 10 hours of television programming¹⁹. They will include sign language interpretation on videos and accessibility features on the e-learning platform to ensure accessible remote learning for children with certain disabilities²⁰.

In LMIC contexts where partner organisations are operating largely as bilateral partners only, or where capacity for partner co-ordination appears weak, national policies and strategies are less fully developed. In Pakistan, for example, evidence suggests that both UNICEF and World Bank are working independently with federal and provincial governments to formulate a range of stand-alone responses in different contexts²¹. At this stage, their overall range of identified solutions and implemented activities appear fragmented and limited in scope.

4. Cross-sectoral partnership, including with the private sector, is key to facilitating delivery of tech-led solutions to home schooling

In jurisdictions where government has sought to work across ministries and departments, and where it has worked in close partnership with the private sector, there is evidence of progress in the delivery of remote learning through media-based modalities.

The Chinese response was based on enhanced cross-sectoral collaboration within government (i.e. between the Ministry of Education and the Ministry of Industry and Information Technology), between government and the private sector (for example, internet providers and tech firms) and, finally, within the state education sector itself. Throughout the education response planning process, central government engaged with all levels of the system to ensure the smooth implementation of a rapidly developed policy. Key interventions included holding several tele-conferences with local level officials and large-scale training and information teleconferences for education practitioners²².

In Bangladesh, the delivery of the country's current remote learning response has involved collaboration between a wide range of government departments, including Ministry of Education (MoE), Directorate of Secondary & Higher Education (DHSE), Ministry of Primary & Mass Education (MoPME), the Ministry of Information & Communications Technology – and in particular the key strategic role given to the a2i ('Access To Information') unit²³. To date, these agencies have also partnered with state- and non-state broadcasters, and as part of future

¹⁹ From personal contact with UNICEF Rwanda

²⁰ UNICEF Rwanda (2020). Radio learning in the time of Coronavirus. News note. 13 April 2020. [Online]. Accessed at: https://www.unicef.org/rwanda/stories/radio-learning-time-coronavirus

²¹ Yousafzai, A. (2020). WB, UN bodies helping Pakistan minimise educational disruption amid COVID-19 crisis. The News [online]. 31 March 2020. Accessed at: https://www.thenews.com.pk/print/637068-wb-un-bodies-helping-pakistan-minimise-educational-disruption-amid-covid-19-crisis

²² UNESCO (2020a)

²³ Personal communication from Golam Kibria, Education Head of Section, DflD Bangladesh M-Kibria@DFlD.gov.uk

plans will draw in working group partnerships with the private sector, including commercial radio, mobile phone service providers and internet providers²⁴.

In Rwanda, the Ministry of Education and the Rwanda Education Board (REB) have partnered with telecommunication platforms and UNICEF (amongst other development partners) to ensure learners (pre-primary, primary, secondary and tertiary) have free access to online educational materials²⁵. Telecommunication companies, MTN Rwanda and Airtel Rwanda, are supporting university and polytechnic students' home learning by providing free data/internet to access these materials through their computers or mobile phones²⁶. In Kenya, the Ministry of Education have also partnered with telecommunication companies to broadcast educational content on radio and television. The Chinese tech firm, Huawei, is supporting the coordination of internal Kenyan government communications through providing video conferencing equipment²⁷.

In Ghana, universities have partnered with Vodafone and MTN Ghana to ensure that lecturers are not charged to use the videoconferencing software, Zoom, to record and upload lectures. In addition, the University of Ghana has agreed with Vodafone to distribute SIM cards with five gigabytes of data to students to access online educational content²⁸.

In South Korea, cross-sectoral collaboration has been used to address issues of equity. As part of its emerging policy and planning for nationwide online education the government has conducted a national 'roll call' of technology available in the home. The intention is to understand where there is a need to target resources so that every student can access online content. A national technology loan scheme has been established in collaboration with private sector and NGO partners²⁹.

²⁴ Sarkar, S. (2020). Attending classes on TV screen. The Financial Express. 6 April 2020. [Online]. Accessed at: https://thefinancialexpress.com.bd/views/attending-classes-on-tv-screen-1586186174

²⁵ Ministry of Education, Rwanda (2020). Twitter post. [Online]. Accessed at: https://twitter.com/Rwanda_Edu/status/1242512348595830785; Republic of Rwanda, Ministry of Education (2020). Students should embrace eLearning amidst schools' closure due to COVID 19. [Online]. Accessed at: https://mineduc.gov.rw/index.php? id=113&tx_news_pi1%5Bnews%5D=1208&tx_news_pi1%5Bcontroller%5D=News&tx_news_pi1%5Baction%5D=detail&cHash=329f42837aefc26bfab8dcd3a807a7e7

²⁶ Mbonyinshuti, J. (2020). Telecom companies provide free access to online learning. University World News. 1 April 2020. [Online]. Accessed at: https://www.universityworldnews.com/post.php?story=20200401082400876

²⁷ Ministry of Education of the Republic of Kenya. (2020b). Twitter post. [Online] Accessed at: https://twitter.com/EduMinKenya/status/1246042653734637568

²⁸ Mohammed, W.F. (2020). What COVID-19 reveals about educational inequality in Ghana. Al Jazeera English. 7 April 2020. [Online]. Accessed https://www.aljazeera.com/indepth/features/covid-19-reveals-educational-inequality-ghana-200407100729985.html; Ferdinand, E. (2020). KNUST suggests September 2020 for WASSCE, 'rejects' Entrance Exams for Prospective Students amidst COVID-19 Pandemic. Education Ghana. 10 April 2020. [Online] Accessed at: https://educationghana.net/index.php/2020/04/10/knust-suggests-september-2020-for-wasscerejects-entrance-exams-for-prospective-students-amidst-covid-19/

²⁹ Bicker, L. (2020). Coronavirus: How South Korea is teaching empty classrooms. BBC News. 10 April. 2020.[Online]. Accessed at: https://www.bbc.co.uk/news/world-asia-52230371

Finally, in Pakistan, the Government of Punjab's Government Online Teaching Program, launched on 1 April, is a collaboration between the School Education Department, its Program Monitoring and Implementation Unit (PMIU), and the Punjab IT Board (PITB), together with an internet service provider and a commercial cable TV channel³⁰.

5. Pre-existing infrastructures for remote learning may influence the speed of responses to home schooling

Evidence suggests that the presence of a pre-existing national infrastructure for the delivery of remote learning, particularly via broadcast or online media, has influenced the speed with which countries have been able to deliver high-visibility home schooling interventions.

Bangladesh has a substantial recent history of using broadcasting and other multimedia approaches in the delivery of remote and/or distance learning. In the last decade, these have proved highly successful in mobilising access to and participation in remote learning at scale. Key examples include the innovative range of BBC Janala learning products (television and radio programming; mobile apps; newspaper columns; community learning groups) designed to support the engagement of the general public in English language learning³¹, and the English In Action programme, funded by DfID between 2008-2018, which involved the innovative use of mobile phones to support the professional development of primary teachers through the creation and sharing of audio, video and print-based resources associated with classroom teaching³². In the case of BBC Janala, the education continuity plan's prioritisation of television broadcast would appear to be a reflection of the impact of these previous initiatives. BBC Janala's additional model of working with six mobile phone networks to ensure either free or reduced data costs for educational material is also likely to be particularly important to future components of the government's emerging educational continuity planning.

In Uganda, an e-learning platform developed by UNICEF and other partners in 2019, that also facilitated offline content, was made freely accessible to all six days after the government announced the closure of schools³³.

In east Asia, the Singapore government's response rests on a longstanding history of delivering EdTech initiatives³⁴. While the details on this move to full home based learning delivery have still to emerge, it is clear that the system is well equipped to deliver education in a way that has EdTech at the centre of its approach.

³⁰ Government of Punjab. (2020). Taleem Ghar. [Online]. Accessed at: https://taleemghar.punjab.gov.pk/

³¹ BBC Media Action. Millions of Bangladeshis learn English with BBC Janala. [Online]. Accessed at: https://www.bbc.co.uk/mediaaction/where-we-work/asia/bangladesh/bbc-janala

³² English in Action (2020). [Online]. Accessed at: https://www.eiabd.com/

³³ UNICEF Uganda (2020).

³⁴ From personal contact with Edmond Gaible, Natoma Group

MOE Singapore launched many EdTech initiatives over the past 25 years. These have been underpinned by the release of a series of ICT Masterplans which specify both the guidelines for EdTech projects and, most critically, the educational objectives that these projects are to be measured against³⁵. Of particular interest to this report are a number of previous policy and reform goals:

- Introduction of EdTech as a means of learning rather than a discrete subject
- The development of EdTech infrastructure in schools with a strong ratio of teachers and students to equipment
- The use of EdTech for assessment
- Provision of teacher training in creative and innovative use of technology for effective teaching
- · A focus on self-directed learning

While it is too early to assess the effectiveness of the Singapore MOE's online education response, it is likely that these underpinning masterplans will have contributed to ensuring at least some level of success in this endeavour. Understanding the impact of the response and the links to previous policy may be an important area of enquiry for future research on education provision in response to COVID-19.

6. Current strategic planning is prioritising high-tech solutions, possibly at the cost of equity and access for all

Within published documentation analysed in this study, there is a clear emphasis placed on prioritising high-tech approaches to remote learning for children out of school. This is apparent not just in higher-income or higher-resourced settings, such as China, Singapore, and South Korea, but also low-income and low-resource settings. In sub-Saharan Africa, Kenya, Rwanda, Ghana and Uganda have all implemented, at least in part, an internet-based approach to home learning. In Bangladesh, the initial response to home schooling is television broadcasting, with planning for radio, mobile phone and internet provision currently underway. In Nepal, while planning is in early stages, there is a similar priority for developing multi-media solutions to home schooling, even in a context when the national technological capacity is still not fully known³⁶.

Interestingly there is little or no presence of low-tech or no-tech solutions³⁷ within national planning documentation. Nepal's Education Cluster response plan (Nepal Education Cluster 2020) makes mention of 'self and peer learning supported by print-based learning resources,

³⁵ Ibid.

³⁶ Nepal Education Cluster (2020).

³⁷ Tech requiring connectivity would be considered high-tech. Low-tech and no-tech solutions primarily refer to paper-based learning packs and physical resources that can be distributed to learners. Radio and television broadcasting might be considered mid- or low-tech as they requires hardware which may be widely but not universally available and accessible.

including library books' but does not discuss delivery mechanisms in any further detail³⁸. It is reported that low-tech and no-tech delivery approaches are being developed as part of current planning in Kenya, Rwanda, Uganda and Ghana, but as yet are not presented as priorities. In China, where the response is focused mainly on online provision, there is some mention of TV based learning for those in hard-to-reach areas³⁹. There is a sense that this was – at least intended to be – a temporary measure as internet connectivity is improved nationwide (i.e. as part of the governments collaboration with private sector communications firms)⁴⁰. In Pakistan, Aga Khan Education Services, who are a key non-state provider of primary, secondary and tertiary education, are acknowledging that remote learning is a significant challenge in locations with poor internet connectivity and mobile phone coverage. In this context, it is reported that school staff are providing carefully designated pick-up and drop-off points for print-based assignments⁴¹.

The general prioritisation of higher-tech solutions as part of educational continuity planning might impact on equity of access, regardless of context. It also presents a particular challenge in LMICs. While Bangladesh is endeavouring to use TV, radio, mobile phone and internet platforms to reach a maximum number of students, only 33% of the people in the region have access to the internet, and only 43.9% of households in rural Bangladesh have television at home⁴². Only 35% of rural Nepal has access to television⁴³. In Ghana, the impracticalities of regional differences in access to reliable energy supplies are likely to even disrupt low-tech measures, including radio broadcasts.

Importantly the South Korean government has tried to address equity issues by providing tech-specific support to low-income families to help with the costs of internet so that their children still have the opportunity to learn while still at home⁴⁴. Further equity-focused interventions have been made in collaboration with the charitable sector, through support for a computer equipment lending service. Charities have been supporting this, alongside additional interventions to support low-income families and those worried about the implications of home schooling⁴⁵.

³⁸ Nepal Education Cluster (2020).

³⁹ UNESCO (2020a).

⁴⁰ Huang et al. (2020).

⁴¹ Aga Khan Development Network (AKDN) (2020). AKDN pulls together in response to the COVID-19 pandemic. [Online]. Accessed at: https://www.akdn.org/project/akdn-pulls-together-response-covid-19-pandemic

⁴² UNICEF Bangladesh (2020b). UNICEF: Urgent need to secure learning for children across South Asia. Press Release. 6 April 2020. [Online]. Accessed at: https://www.unicef.org/bangladesh/en/press-releases/unicef-urgent-need-secure-learning-children-across-south-asia

⁴³ Ibid.

⁴⁴ Bicker, L. (2020).

⁴⁵ Ibid.

7. Ensuring the quality of learning as well as continuity of access to education

The role of parents in home schooling

There is a general recognition that parents have a key role to play in, firstly, facilitating engagement with home schooling, and secondly, providing academic support to children. In this regard, collaboration and communication with parents has been a key aspect of strategic planning.

The South Korean government has tried to ensure buy-in for a widespread home schooling approach by providing subsidies to support those who must stay at home from work with children due to school closures⁴⁶. The Japanese government's initial response included measures to ensure that parents of children affected by school closures were able to take time off in order to look after them. Specifically, the government ensured that funds were available to compensate these parents for any unpaid leave taken, and thus supporting parents on lower incomes⁴⁷.

In Bangladesh, it is reported that a2i is leading state-sector planning for an education communication strategy to ensure parents/caregivers are aware of and can engage children in the scheduled learning processes⁴⁸. UNICEF's COVID-19 response plan also advocates for the provision of information to parents and caregivers on how to support and engage with their children's learning, make learning interactive, engage parents and learners, monitor engagement and ensure assessment of learning⁴⁹. Similarly, it is stated that UNICEF in Pakistan is supporting the Ministry of Education & Professional Training (MoEPT) in disseminating education-related messages targeting parents to encourage their children to continue learning⁵⁰.

The role of teachers in home schooling

Clarity about the role of teachers in the context of home schooling is often absent from planning, policy and strategic documents. However, there are some notable exceptions where a key role for teachers is both highlighted and expected.

⁴⁶ Dudden, A., and Marks A. (2020). South Korea took rapid, intrusive measures against COVID-19 – and they worked. The Guardian. 20 March 2020 [Online]. Accessed at: https://www.theguardian.com/commentisfree/2020/mar/20/south-korea-rapid-intrusive-measures-covid-19

⁴⁷ Chappell, B. (2020) Coronavirus Updates. NPR. 27 February 2020 [Online]. Accessed at: https://www.npr.org/sections/goatsandsoda/2020/02/27/809984502/coronavirus-update-japan-is-closing-all-its-schools-for-a-month? t=1586853616816&t=1586863350265&t=1587056787206

⁴⁸ Personal communication from Golam Kibria, Education, DflD Bangladesh M-Kibria@DFID.gov.uk

⁴⁹ UNICEF Bangladesh (2020a). UNICEF scales up support to keep children learning, as COVID-19 forces schools to close. 27 March 2020. [Online]. p. 8-9. Accessed at: https://www.unicef.org/bangladesh/en/press-releases/unicef-scales-support-keep-children-learning-covid-19-forces-schools-close

⁵⁰ UNICEF Pakistan. (2020). Pakistan COVID-19 Situation Report 23-29 March. Islamabad: UNICEF. [Online]. Accessed at: https://reliefweb.int/report/pakistan/pakistan-covid-19-situation-report-report-reporting-date-23-29-march-2020

In South Korea, the MoE has published documentation setting expectations for teachers in relation to remote learning, including guidance about how they are to set assignments and comment on work. The MoE has establishing the 'Teacher On' initiative, a remote community of practice for teachers to share examples of good practice in online teaching and learning, led volunteers with existing experience of remote learning. In addition, the MoE has announced the development of the '10,000 Communities' online platform, for teachers to share good practice⁵¹.

In Singapore, the Ministry of Education has stated that teachers are expected to provide support to parents and students throughout the lockdown period, stating that they will either work from home or from the school in order to deliver the support, and "will also keep in regular contact with [students] and their parents"⁵².

In Kenya, in the development and distribution of home learning resources, both the Ministry of Education and Kenyan Institute of Curriculum Development (KICD) have made clear that the resources themselves are supplementary to the role of teachers, and have indicated that teachers can apply to become "resource persons" to update home schooling resources⁵³. However, little else has been published on how teachers can support home learning. As part of its national response strategy, UNICEF Kenya (2020) also advocates for developing the role of teachers and headteachers in supporting the continuity of learning.

In Rwanda, while the role of teachers in supporting home learning has not yet been confirmed, the Ministry has encouraged teachers to "train themselves" and continue learning outside of school⁵⁴. A Teachers' Credit and Savings Cooperative have announced plans to provide financial support to teachers affected by COVID-19, through a loan to cover any losses in salary⁵⁵. Selected teachers in Uganda will use local radio and television stations to deliver lessons.

⁵¹ Korean Ministry of Education (2020). The New School Year Begins with Online Classes. MOE Press Release. 13 April 2020. [Online] Accessed at: http://english.moe.go.kr/boardCnts/view.do?
<a href="boardID=265&boardSeq=80297&lev=0&searchType=null&statusYN=C&page=1&s=english&m=0301&opType=Null&s

⁵² Ministry of Education. Singapore Government. (2020c). Schools to Implement One Day of Home-Based Learning a Week. Press release. 27 March 2020. [Online]. Accessed at: https://www.moe.gov.sg/news/press-releases/schools-to-implement-one-day-of-home-based-learning-a-week

⁵³ Kenya Institute of Curriculum Development (2020). Twitter post. [Online] Accessed at: https://twitter.com/KICDKenya/status/1246862620797341696/photo/1

⁵⁴ Rwanda Education Board (2020). Twitter post. [Online] Accessed at: https://twitter.com/REBRwanda/status/1247185572885602307

⁵⁵ Sacco, U. (2020). Twitter post. [Online] Accessed at: https://twitter.com/MwalimuSacco/status/1247971001964560385

Assuring the quality of home schooling provision

Integration of opportunities to test, learn and adapt are evident in Singapore and South Korea. In Singapore, the nationwide school closures were preceded by a one-day-per-week home schooling pilot program, to allow parents, teachers, students to get used to home schooling arrangements⁵⁶. The pilot also provided opportunities for the Singaporean ministry to understand how a ramped-up version of the policy might work.

In South Korea, the ministry has announced a phased model to deliver their online classes at scale, with third year middle and high school students beginning their online term on 9th April. Other grades are due to follow on the 16th and 20th April respectively⁵⁷. Though it is not stated explicitly, it is possible that this approach may represent an attempt by the MOE to utilise a 'test, learn, adapt' type approach, using lessons from the early stages of the roll out to inform tweaks and adaptations to the policy and the online platforms as things scale up to the wider community of school students⁵⁸.

The South Korean ministry have announced the creation of an online class preparation and monitoring team whose mandate is not only to support implementation of the immediate policies on the ground but also to monitor their effectiveness and respond to issues and challenges on an ongoing basis⁵⁹. In addition, the MoE are reportedly setting up an Ed-Tech task force within the ministry to devise a mid- to long-term strategy for education provision in the second half of this year⁶⁰.

It is also possible that this approach is being adopted in China, as they have also stated that a monitoring and evaluation team will be put in place to understand how effective online learning methods will be to inform policy in future⁶¹.

Strategies for supporting the most vulnerable

Strategies to support the most vulnerable have not been fully addressed in the information gathered by this review. As discussed above, the prevalence of technology and media-driven remote learning models present a challenge to equity, particularly in low-resource settings.

⁵⁶ Singapore Ministry of Education (2020) Schools to implement one day of home-based learning a week. MOE press release. 27 March [Online] Accessed at: https://www.moe.gov.sg/news/press-releases/schools-to-implement-one-day-of-home-based-learning-a-week

⁵⁷ Ministry of Education, Republic of Korea (2020). Official facebook page @ourmoekr, 13 April 2020. [Online] Accessed at: https://www.facebook.com/ourmoekr/

⁵⁸ Bahk, E. (2020). Online class platforms plagued with malfunction. Korea Times. 15 April 2020. [Online]. Accessed at: https://www.koreatimes.co.kr/www/nation/2020/04/181 287871.html

⁵⁹ Korean Ministry of Education (2020) All schools postpone the new school year. MOE press release 13 April 2020 [Online]. Accessed at: http://english.moe.go.kr/boardCnts/view.do?
http://english.moe.go.kr/boardCnts/view.do?

⁶⁰ Ibid.

⁶¹ Huang et al. (2020).

Based on available government documentation, reaching the most vulnerable seems to be regarded as a priority for NGOs rather than for government. In Bangladesh, for example, it is stated that SCI and BRAC have received US\$ 1.5m from the emergency education fund to support the C19 education response in Rohingya Refugee Camps at Cox's Bazar⁶². In addition, UNICEF Bangladesh have also published a separate and specific education response strategy for the same camps, and are currently supporting the provision of print-based materials for parent-led teaching in those contexts⁶³.

Strategies for safeguarding

There is some emerging evidence of communications regarding safeguarding often focused within the context of online learning. In addition, there is also evidence of plans for the inclusion of psychosocial support and messaging within home schooling programming in Nepal and Pakistan. In Bangladesh, psychosocial support programming is being developed as part of the current television-based programming⁶⁴. In addition it is stated that an education communication strategy for safeguarding is under development, focussing on initiating an online safeguarding campaign and the dissemination of relevant protection messages to parents and children. UNICEF Bangladesh's COVID-19 response plan also advocates for strengthened child protection and social care initiatives⁶⁵.

It appears that comprehensive strategies and guidelines for safeguarding under home schooling are yet to be circulated.

Continued nutrition support

As with safeguarding, specific strategies for the provision of continued nutrition support is largely absent from education strategy statements. In South Korea, the MOE have announced additional policy measures to support parents and students through school closures, including the provision of four months' worth of food vouchers to eligible households. There is also some evidence of wider state interventions for continued nutrition support under COVID-19, including subsidized rice in Bangladesh.

Although the government of Uganda have not specifically announced measures to provide nutritional support for children, it has organised food relief packages for 1.5 million urban poor in Kampala and Wakiso that are distributed by the policy, and includes salt, six kilos of maize flour and three kilos of beans per person⁶⁶. Additional supplies have been given to mothers that are breastfeeding⁶⁷. In addition, the government have implemented measures

⁶² Personal communication from Golam Kibria, Education Head of Section, DfID Bangladesh M-Kibria@DFID.gov.uk

⁶³ UNICEF Bangladesh, (2020b). p. 9

⁶⁴ Personal communication from Golam Kibria, Education, DfID Bangladesh M-Kibria@DFID.gov.uk

⁶⁵ UNICEF Bangladesh (2020a).

⁶⁶ Rugunda, R. (2020). Twitter post. [Online] Accessed at: https://twitter.com/RuhakanaR/status/1245363149009825794

⁶⁷ Ibid.

to revoke trading licences of food sellers that increase their prices in response to restricted measures⁶⁸. The Rwanda government has also introduced measures to tackle vendors selling overpriced goods⁶⁹.

Strategies for public health support

Given the context of the viral pandemic, there is frequent mention of the inclusion of public health messaging under both educational provision and education-focused public service communications to parents and children. The distribution of content and learning messages on social distancing, hygiene and isolation are a featured part of strategies in Pakistan, Nepal, and Bangladesh⁷⁰. For example, as part of interventions in Pakistan, the World Bank is including a comprehensive communication campaign for schools, parents and children on key hygiene practices and how to protect themselves and others⁷¹.

Across all countries featured in this study, there is no evidence of wider non-COVID-19 public health strategies within current educational response planning.

⁶⁸ Museveni, Y. (2020). Twitter post. [Online] Accessed at: https://twitter.com/KagutaMuseveni/status/1242696269782487040

⁶⁹ Rwanda Broadcasting Agency (2020). Twitter post. [Online] Accessed at: https://twitter.com/rbarwanda/status/1239266628971495424/photo/1

⁷⁰ UNICEF Pakistan (2020); Nepal Education Cluster (2020); UNICEF Bangladesh (2020a).

⁷¹ World Bank. (2020b). Pakistan - COVID-19 Pandemic Response Effectiveness Project. [Online]. Accessible at: http://documents.worldbank.org/curated/en/651371585953227830/Pakistan-COVID-19-Pandemic-Response-Effectiveness-Project

Recommendations for policymakers

1. Learn from policy and strategy development around the world and adapt policy based on data

Policymakers should follow and learn from the steps taken in other countries, drawing on evidence from countries that were impacted by the pandemic earlier. Adopting an adaptive data-driven policy-making approach will support success longer term and is essential in a rapidly changing policy context.

2. Promote access and reduce costs to learners

Online learning can involve costs to students. In many instances charges for internet connectivity will bar students in marginalised groups from participation in learning. Such costs could, as in China, be reduced by government collaboration with internet service providers and other telecommunications companies.

3. Prioritise or move towards centralised action combined with scope for an element of local autonomy

Centralised systems appear better able to act quickly and decisively and the country responses analysed in this report suggest this is good. Centralised action does not preclude some autonomy. Agile local response is a vital element and can sustain support for learners, focus school and teacher action and underpin good pedagogy for remote learning⁷².

4. Plan for both the immediate and the long term

There is a need for twin track planning. Responding to the immediate crisis while planning for the long term. Initiatives undertaken in response to COVID-19 will change participation in education after the pandemic has eased and schools have re-opened. Long term planning should include approaches to teacher development, resource development, agreements with operators and other factors that will have value and utility over time.

5. Ensure remote learning plans are based on the most limited estimate of technological infrastructure and make necessary system upgrades

Action should be taken that is appropriate to estimates of limited access to electrical and communications infrastructure.

Key private-sector, civil-society and governmental internet platforms will experience great increases in demand during the emergency. It is essential that these systems can function effectively under these increased demands. Such upgrades might be necessary to bandwidth, servers, security features or other items.

⁷² See sister report on best practice and pedagogy for remote teaching.

6. Strive for clarity, decisiveness and support in government action and coherence in donor and geographic coordination

The point has been made already that centralised systems appear able to move swiftly. It is also important that action is taken and supported by clear communication and support of the right nature provided to key system stakeholders (as in China).

Where donor, partner and/or regional government structures bring additional complexity, coordination and coherence is key. Coordination among activities can be missing (as in Pakistan), and should be initiated as soon as possible. Lack of coordination among donor agencies can be exacerbated by decentralisation or by provincial/prefectural responsibility for education.

7. Support cross-sectoral collaboration and alliances

Collaboration across government and with partners appears, in some cases, to have aided the effectiveness of the emergency response in the current crisis. Within government, such collaboration can involve the Ministry of Education and a ministry of telecommunication or technology. But such collaborations can also range between government and the private sector or, in the case of LMICs, between donor agencies and the private sector, with government facilitation (as in Rwanda).

8. Consider education equity in relation to all forms of remote education

As many countries focus their efforts on online learning, equity issues resulting from different forms of digital divide will proliferate. No country currently has internet connectivity, device penetration and the absence of poverty necessary to ensure that online learning is equitable. Print, broadcast and other means should in many instances supplement and even supplant efforts to shift education online.

9. Engage parents and families in home-based education, while recognising that many disadvantaged learners lack effective family support

Family engagement is crucial to home-based education. Parents and family members can influence the activities of their children, determine the use of devices (including radios), and establish norms and priorities (notably in relation to girls' education in some countries). Encouraging parents and family members to support home-based education—and the focus that it requires—seriously, is critical for success. It is also extremely important to consider the very real different family circumstances children live in. Not every child has access to effective family support and, without mitigation of the risk, existing disadvantage will deepen during a period of school closure.

10. Adopt a learning-focused and adaptive mindset

Countries are reacting rapidly to a crisis and developing (and implementing) new policy at a speed that does not always allow for things to be properly worked through. This speed of implementation also does not allow for unintended consequences to be recognised before it is too late.

Adopting a learning-focused and adaptive mindset will aid governments in keeping track of whether these policy interventions are working and will allow opportunities to tweak or pivot where they are not. Such approaches are common in policy and programming in normal times but are even more important in a context of unforeseen crisis and rapidly shifting circumstances.

Bibliography

Aga Khan Development Network (AKDN) (2020). AKDN pulls together in response to the COVID-19 pandemic. [Online]. Accessed at: https://www.akdn.org/project/akdn-pulls-together-response-covid-19-pandemic

Akufo-Addo, N. President of the Republic of Ghana. (2020). Twitter post. [Online].
Accessed at: https://twitter.com/
NAkufoAddo/status/1239321811206246403/
photo/1

Bahk, E. (2020). Online class platforms plagued with malfunction. Korea Times. 15th April 2020. [Online]. Accessed at: https://www.koreatimes.co.kr/www/nation/ 2020/04/181 287871.html

BBC Media Action. Millions of Bangladeshis learn English with BBC Janala. [Online]. Accessed at: https://www.bbc.co.uk/mediaaction/where-we-work/asia/bangladesh/bbc-janala

Bicker, L. (2020). Coronavirus: How South Korea is teaching empty classrooms. BBC News. 10 April. 2020.[Online]. Accessed at: https://www.bbc.co.uk/news/world-asia-52230371

Bonaya, M. (2020a). Parents have crucial role in homeschooling. Africa Zilla. 8 April 2020. [Online]. Accessed at: https://africazilla.com/parents-have-crucial-role-in-homeschooling

Bonaya, M. (2020b). Parents have crucial role in homeschooling. The Nation. 8 April 2020. [Online]. Accessed at: https://www.nation.co.ke/oped/opinion/Parents-have-crucial-role-in-homeschooling/440808-5518444-1333g16z/index.html

Cabinet Secretary for Transport, Infrastructure, Housing and Urban Development. (2020). Twitter post. [Online]. Accessed at: https://twitter.com/
JamesMacharia_/status/
1244632358789304321

Center for Global Development (2020). CGD - COVID education policy tracking.
Interactive spreadsheet. [Online]. Accessed at: https://docs.google.com/spreadsheets/d/1ndHgP53at]5]-
EtxgWcpSfYG8LdzHpUsnb6mWybErYg/edit#gid=0

CEO of Kenyatta National Hospital. (2020). Twitter post. [Online] Accessed at: https://twitter.com/CeoKnh/status/ 1249998646831206406

Chappell, B. (2020) Coronavirus Updates. NPR. 27 February 2020 [Online]. Accessed at: https://www.npr.org/sections/goatsandsoda/2020/02/27/809984502/coronavirus-update-japan-is-closing-all-its-schools-for-a-month?
https://www.npr.org/sections/goatsandsoda/2020/02/27/809984502/coronavirus-update-japan-is-closing-all-its-schools-for-a-month?
https://www.npr.org/sections/goatsandsoda/2020/02/27/809984502/coronavirus-update-japan-is-closing-all-its-schools-for-a-month?
https://www.npr.org/sections/goatsandsoda/2020/02/27/809984502/coronavirus-update-japan-is-closing-all-its-schools-for-a-month?
https://www.npr.org/sections/
https://www.npr.org/sectio

China News (2020). Feature: Kenyan students find respite in digital learning amid COVID-19 outbreak. 14 April 2020. [Online]. Accessed at: http://www.china.org.cn/world/Off_the_Wire/2020-04/14/
content 75927622.htm

Dhaka Tribune (2020). BTV, Sangsad TV to air lessons for secondary level students from Sunday. Dhaka Tribune. 28 March 2020. [Online]. Accessed at: https://www.dhakatribune.com/bangladesh/2020/03/28/btv-sangsad-tv-to-air-lessons-for-secondary-level-students-from-sunday

Dudden, A. & Marks, A. (2020). South Korea took rapid, intrusive measures against Covid-19 – and they worked. The Guardian. 20 March 2020. [Online]. Accessed at: https://www.theguardian.com/commentisfree/2020/mar/20/south-korea-rapid-intrusive-measures-covid-19

Enabel in Uganda (2020). Twitter post. 15thApril 2020. [Online] Accessed at: https://twitter.com/EnabelinUganda/status/ 1250323073758195712

English in Action (2020). [Online]. Accessed at: https://www.eiabd.com/

Examples of solutions for reaching students with limited access to the internet can be found in Aladin, K. (2020). Reaching Children & Students in Remote Locations. Hundred. [Online] Accessed at: https://hundred.org/en/innovations/reaching-children-students-in-remote-locations

Ferdinand, E. (2020). KNUST suggests
September 2020 for WASSCE,'rejects'
Entrance Exams for Prospective Students
amidst COVID-19 Pandemic. Education
Ghana. 10 April 2020. [Online] Accessed at:
https://educationghana.net/index.php/
2020/04/10/knust-suggestsseptember-2020-for-wasscerejectsentrance-exams-for-prospective-studentsamidst-covid-19/

Fleming, S. (2020). South Korea's Foreign Minister explains how the country contained COVID-19. World Economic Forum. 31 March 2020. [Online]. Accessed at: https://www.weforum.org/agenda/2020/03/south-korea-covid-19-containment-testing/

Global Education Monitoring (GEM) Report (2020). World Education Blog. [Online]. Accessed at: https://gemreportunesco.wordpress.com/

Government of Punjab. (2020). Taleem Ghar. [Online]. Accessed at: https://taleemghar.punjab.gov.pk/

Huang et al. (2020). Handbook on
Facilitating Flexible Learning During
Educational Disruption: The Chinese
Experience in Maintaining Undisrupted
Learning in COVID-19 Outbreak. Beijing:
Smart Learning Institute of Beijing Normal
University https://inee.org/system/files/resources/Handbook-on-Facilitating-Flexible-Learning-in-COVID-19-Outbreak_0.pdf

Hundred (2020). Quality Education for all during Covid-19. [Online]. Accessed at: https://hundred.org/en/collections/guality-education-for-all-during-coronavirus

Innovations for Poverty Action. (n.d.). Using Storybooks to Promote Early Literacy in Kenya. [Online] Accessed at: https://www.poverty-action.org/study/using-storybooks-promote-early-literacy-kenya

Inter-agency Network for Education In Emergencies (INEE) (2020). Coronavirus (COVID-19) Resources. [Online]. Accessed at: https://inee.org/covid-19/resources

Joy Online (2020). Coronavirus: Government orders closure of schools & universities, bans public gatherings. Joy Online.

15thMarch 2020. [Online]. Accessed at: https://www.myjoyonline.com/news/national/livestream-akufo-addo-provides-latest-updates-on-coronavirus/#

Junior, M. (2020). CS Magoha: We'll not risk children lives, dead people don't sit examinations. Standard Media. 13 April 2020. Accessed at: https://www.standardmedia.co.ke/article/2001367914/cs-magoha-we-ll-not-risk-children-lives-dead-people-don-t-sit-examinations

Kader, B. (2019). The Mobile And Internet Penetration Growth Continues, Internet's Deployment Phase. Future Startup. 31 January 2019. [Online]. Accessed at: https://futurestartup.com/2019/01/31/mobile-and-internet-penetration-updates-internets-deployment-phase/

Katsuhisa, S. (2020). Coronavirus Basic Policy Impacts Japan's Health, Education Systems. Nippon. 2 March 2020. [Online]. Accessed at: https://www.nippon.com/en/news/l00269/coronavirus-basic-policy-impacts-japan%e2%80%99s-health-education-systems.html?cx recs click=true

Kenya Institute of Curriculum Development (2020). Twitter post. [Online] Accessed at: https://twitter.com/KICDKenya/status/1246862620797341696/photo/1

Kenya Ministry of Education (2020). Twitter post. [Online]. Accessed at: https://twitter.com/EduMinKenya/status/ 1240221103794069504

Korean Ministry of Education (2020a). The New School Year Begins with Online Classes. MOE Press Release. 13 April 2020. [Online]. Accessed at: http://english.moe.go.kr/boardCnts/view.do?
boardID=265&boardSeq=80297&lev=0&sear chType=null&statusYN=C&page=1&s=englis h&m=0301&opType=N

Korean Ministry of Education (2020b). All schools postpone the new school year. Press release. 13 April 2020. [Online]. Accessed at: http://english.moe.go.kr/boardCnts/view.do? http://english.moe.go.kr/boardCnts/view.do?

Kyodo News (2020a). PM Abe asks all schools in Japan to temporarily close over coronavirus. Kyodo News. 27 February 2020. [Online]. Accessed at: https://english.kyodonews.net/news/2020/02/c3c57bbce11d-breaking-news-govt-will-ask-all-schools-in-japan-to-shut-for-virus-fears-abe.html

Kyodo News (2020b). Many schools in Japan reopen after monthlong coronavirus shutdown. Kyodo News. 6 April 2020. [Online]. Accessed at: https://english.kyodonews.net/news/ 2020/04/95a68588ba74-many-schools-in-japan-reopen-after-monthlong-coronavirus-shutdown.html

Mbonyinshuti, J. (2020). Telecom companies provide free access to online learning. University World News. 1 April 2020. [Online]. Accessed at: https://www.universityworldnews.com/post.php? story=20200401082400876

McCurry, J. (2020). Japan declares state of emergency over coronavirus. The Guardian. 7 April 2020. [Online]. Accessed at: https://www.theguardian.com/world/2020/apr/07/japan-shinzo-abe-declares-state-of-emergency-over-coronavirus

Ministry of Education of the Republic of Kenya. (2020a). Twitter post. [Online]
Accessed at: https://twitter.com/
EduMinKenya/status/
1239474968796237824/photo/1

Ministry of Education of the Republic of Kenya. (2020b). Twitter post. [Online]
Accessed at: https://twitter.com/
EduMinKenya/status/
1246042653734637568

Ministry of Education. The People's Republic of China (2020a). Open University of China provides free services to support MOE's "Home Study" Initiative. [Online]. Accessed at: http://en.moe.gov.cn/news/ press releases/202002/

Ministry of Education. The People's Republic of China (2020b). MOE opens online learning platform to facilitate home study. [Online]. Accessed at: http://en.moe.gov.cn/news/ press releases/202002/t20200201_417275.html

Ministry of Education, Republic of Korea (2020). Official facebook page @ourmoekr, 13 April 2020. [Online] Accessed at: https://www.facebook.com/ourmoekr

Ministry of Education, Rwanda (2020).
Twitter post. [Online]. Accessed at: https://twitter.com/Rwanda_Edu/status/
1242512348595830785

Ministry of Education. Singapore
Government. (2020a). Schools and Institutes
of Higher Learning to Shift to Full HomeBased Learning; Preschools and Student
Care Centres to Suspend General Services.
Press release. 3 April 2020. [Online].
Accessed at: https://www.moe.gov.sg/news/press-releases/schools-and-institutes-of-higher-learning-to-shift-to-full-home-based-learning-preschools-and-student-care-centres-to-suspend-general-services

Ministry of Education. Singapore
Government. (2020b). Schools and
Kindergartens to Re-Open with Enhanced
Precautionary Measures. Press release. 19
March 2020. [Online]. Accessed at: https://www.moe.gov.sg/news/press-releases/schools-and-kindergartens-to-re-open-with-enhanced-precautionary-measures

Ministry of Education. Singapore
Government. (2020c). Schools to Implement
One Day of Home-Based Learning a Week.
Press release. 27 March 2020. [Online].
Accessed at: https://www.moe.gov.sg/news/press-releases/schools-to-implement-one-day-of-home-based-learning-a-week

Ministry of Education. Singapore Government. (2020d). Student Learning Space. [Online]. Accessed at: https://vle.learning.moe.edu.sg/login

Ministry of Education and Sports Uganda. Twitter post. 5 April 2020. [Online] Accessed at: https://twitter.com/Educ_SportsUg/status/1246696830810939393

Mohammed, W.F. (2020). What COVID-19 reveals about educational inequality in Ghana. Al Jazeera English. 7 April 2020. [Online]. Accessed https://www.aljazeera.com/indepth/features/covid-19-reveals-educational-inequality-ghana-200407100729985.html

Museveni, Y. (2020). Twitter post. [Online]
Accessed at: https://twitter.com/
KagutaMuseveni/status/
1242696269782487040

Mutegeki, G. (2020). COVID-19: How to keep your child engaged during the lockdown.

New vision. 6 April 6 2020. [Online] Accessed at: https://www.newvision.co.ug/new_vision/news/1517608/covid-19-child-engaged-lockdown

Mutuko, M. (2020). Magoha reveals how students will be learning from home as the country faces coronavirus. Pulse Live. 18 March 2020. [Online] Accessed at: https://www.pulselive.co.ke/news/cs-george-magoha-reveals-how-students-will-be-learning-from-home-as-the-country-faces/sg5cyvy

Najib, F. & Ranjan, P. (2020). Reaching Remote Students and Families in Pakistan Using Radio As a response to COIVD-19. Hundred. 27 March 2020. [Online]. Accessed at: https://hundred.org/en/articles/reaching-remote-students-and-families-in-pakistan-using-radio-as-a-response-to-covid-19

Nepal Education Cluster (2020). COVID-19 Education Cluster Contingency Plan, 2020, March 2020. Kathmandu: Nepal Education Cluster. Online Khabar (2020). Coronavirus crisis: Nepal shuts schools, colleges till April 12; gyms and cinemas till April 30. Online Khabar. 18 March 2020. [Online]. Accessed at: https://english.onlinekhabar.com/coronavirus-crisis-nepal-shuts-schools-colleges-till-april-12-gyms-and-cinemas-till-april-30.htm

Pesek, W. (2020). Japan's coronavirus response is too little, too late. Washington Post. 10 April 2020. [Online]. Accessed at: https://www.washingtonpost.com/opinions/2020/04/10/japans-coronavirus-response-istoo-little-too-late/

Prothom Alo (2020). 22ndMarch 2020. [Online]. Accessed at:<u>"এইচএসসি-</u> সমমানেরপরীক্ষাস্থগিত" (link in Bengali)

Public Holidays Global (2020a). Kenya Term Dates and School Holidays 2020. [Online]. Accessed at: https://publicholidays.co.ke/school-holidays/2020-dates

Public Holidays Global (2020b). Ghana School Holidays 2020. [Online]. Accessed at: https://publicholidays.africa/ghana/school-holidays/

ReliefWeb (2020). COVID 19. [Online] Accessed at: https://reliefweb.int/topics/covid-19

Republic of Rwanda, Ministry of Education (2020). Students should embrace eLearning amidst schools' closure due to COVID 19. [Online]. Accessed at: https://mineduc.gov.rw/index.php?
id=113&tx news pi1%5Bnews%5D=1208&tx
news_pi1%5Bcontroller%5D=News&tx_news_pi1%5Baction%5D=detail&cHash=329f428]
37aefc26bfab8dcd3a807a7e7

Rugunda, R. (2020). Twitter post. [Online] Accessed at: https://twitter.com/RuhakanaR/ status/1245363149009825794

Rwanda Broadcasting Agency (2020). Twitter post. [Online] Accessed at: https://twitter.com/rbarwanda/status/ 1239266628971495424/photo/1

Rwanda Education Board (2020). Twitter post. [Online] Accessed at: https://twitter.com/REBRwanda/status/ 1247185572885602307

Sacco, U. (2020). Twitter post. [Online]
Accessed at: https://twitter.com/
MwalimuSacco/status/
1247971001964560385

Sarkar, S. (2020). Attending classes on TV screen. The Financial Express. 6 April 2020. [Online]. Accessed at: https://thefinancialexpress.com.bd/views/ attending-classes-on-tv-screen-1586186174

The Minchi (2020a). Editorial: Amid school closures, Japan must quickly utilize online teaching tools. The Minchi. 13 April 2020. [Online]. Accessed at: https://mainichi.jp/english/articles/20200413/p2a/00m/0na/005000c

The Minchi (2020b). Only 38% of schools in Japan began new term amid coronavirus woes. The Minchi. 14 April 2020. [Online]. Accessed at: https://mainichi.jp/english/articles/20200414/p2g/00m/0na/012000c

Thorpe, P., and Supaporn, R. (2017).
Protecting children on the move in Asia through ICT and social media. Singapore:
Save the Children Asia Regional Office.
[Online]. Available at: https://
resourcecentre.savethechildren.net/node/
12372/pdf/
protecting_children_on_the_move_i
n_asia_online_version.pdf

UNESCO (2020a). COVID-19 Educational Disruption and Response. [Online] Accessed at: https://en.unesco.org/covid19/ educationresponse

UNESCO (2020b). How is China ensuring learning when classes are disrupted by coronavirus?. [Online]. Accessed at: https://en.unesco.org/news/how-china-ensuring-learning-when-classes-are-disrupted-coronavirus

UNICEF (2020a). Coronavirus disease (COVID-19). What you need to know about the virus to protect you and your family. [Online]. Accessed at: https://www.unicef.org/coronavirus/covid-19

UNICEF (2020b). UNICEF scales up support to keep children learning, as COVID-19 forces schools to close. [Online]. Accessed at: https://www.unicef.org/bangladesh/en/press-releases/unicef-scales-support-keep-children-learning-covid-19-forces-schools-close

UNICEF Bangladesh (2020a). UNICEF scales up support to keep children learning, as COVID-19 forces schools to close. 27 March 2020. [Online]. Accessed at: https://www.unicef.org/bangladesh/en/press-releases/unicef-scales-support-keep-children-learning-covid-19-forces-schools-close

UNICEF Bangladesh (2020b). UNICEF: Urgent need to secure learning for children across South Asia. Press Release. 6 April 2020. [Online]. Accessed at: https://www.unicef.org/bangladesh/en/press-releases/unicef-urgent-need-secure-learning-children-across-south-asia

UNICEF Pakistan. (2020). Pakistan COVID-19 Situation Report 23rd-29th March. Islamabad: UNICEF. [Online]. Accessed at: https://reliefweb.int/report/pakistan/ pakistan-covid-19-situation-report-reporting-date-23-29-march-2020

UNICEF Rwanda (2020). Radio learning in the time of Coronavirus. News note. 13 April 2020. [Online]. Accessed at: https://www.unicef.org/rwanda/stories/radio-learning-time-coronavirus

UNICEF Uganda (2020). UNICEF scales up support in 145 countries to keep children learning, as COVID-19 forces majority of schools worldwide to close. Press release. 26 March 2020. [Online]. Accessed at: https://www.unicef.org/uganda/press-releases/unicef-scales-support-145-countries-keep-children-learning-covid-19-forces-majority

Wikipedia (2020a). Impact of the 2019–20 coronavirus pandemic on education. [Online]. Accessed at: https://en.wikipedia.org/wiki/
Impact of the 2019%E2%80%9320 coronavirus pandemic on education

Wikipedia (2020b). 2020 coronavirus pandemic in Pakistan. [Online]. Accessed at: https://en.wikipedia.org/wiki/
2020 coronavirus pandemic in Pakistan

World Bank (2020a). Remote Learning, EdTech & COVID-19. [Online]. Accessed at: https://www.worldbank.org/en/topic/ edutech/brief/edtech-covid-19

World Bank. (2020b).Pakistan - COVID-19
Pandemic Response Effectiveness Project.
[Online]. Accessible at: http://documents.worldbank.org/curated/en/651371585953227830/Pakistan-COVID-19-Pandemic-Response-Effectiveness-Project

Yousafzai, A. (2020). WB, UN bodies helping Pakistan minimise educational disruption amid COVID-19 crisis. The News. 31 March 2020. [Online]. Accessed at: https://www.thenews.com.pk/print/637068-wb-unbodies-helping-pakistan-minimise-educational-disruption-amid-covid-19-crisis

Licence

<u>Creative Commons Attribution 4.0</u> <u>International</u>

You are free to share (copy and redistribute the material in any medium or format) and adapt (remix, transform, and build upon the material) for any purpose, even commercial ones. You must give appropriate credit, provide a link to the license, and indicate whether any changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.

