



Leh Wi Lan Sierra Leone Secondary Grade Learning Assessment 2019



Briefing note 1: October 2019

Status of pupil learning outcomes in junior & senior secondary schools of Sierra Leone


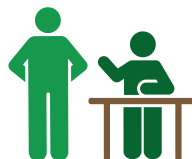

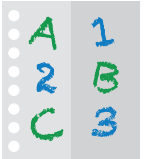

On the 20th of August 2019, Sierra Leone marked the first anniversary of the Free Quality School Education Programme (FQSE). The past year has seen significant strides in ensuring all Sierra Leonean children have equal access to free quality school education. FQSE has led to more schools and teachers getting approved; improved learning environment through distribution of teaching and learning materials; better school and classroom infrastructure; review of service conditions for teachers; and measures against examination malpractice. Furthermore, by focussing on 'quality' in the FQSE, this ambitious programme is aiming to go beyond simply filling classrooms through increased enrolment. Ultimately, the FQSEP will succeed if children in all parts of Sierra Leone are learning useful skills, whether they are girls, boys, poor or rich.

The Secondary Grade Learning Assessments (SGLAs) play a pivotal role in informing MBSSE, districts and schools on the quality of teaching and learning in Sierra Leone. In 2017 and 2018, SGLAs measured English and mathematics skills of JSS2 and SSS2 students in Sierra Leonean schools. The results showed that most pupils only show basic primary-level English and maths skills despite completing eight (JSS2) to 11 (SSS2) years of formal education and passing various exams like the NPSE and BECE. Girls, poorer pupils and those in remote schools tended to do worse.¹ One explanation for why schools are not improving is that enrolment is increasing rapidly: on average, JSS were enrolling 10 per cent more students in 2017 compared to 2015, and SSS 30 per cent more students. Some schools may struggle to cope with the additional students while maintaining or improving quality. School census data for 2019 – which will provide a first glimpse of how much FQSE has increased enrolment – was not available at the time of writing this note. However, it can be hypothesised that the launch of a free universal basic education programme will push enrolment numbers up, with many newly enrolled pupils being first-generation learners, from disadvantaged families, who need closer attention from teachers in order to learn and thrive. This is in addition to historical shocks borne by these pupils back in 2014-15 (when they were at a formative stage of primary education) due to Ebola. These contextual factors should be borne in mind when reading the results discussed below.

With the third year of SGLA, this briefing note reports back on the status of pupil learning outcomes in junior and senior secondary schools by addressing three key questions:

- What are the English and maths skills typically demonstrated by JSS2 and SSS2 pupils? Are these skills in line with what the national curriculum expects from pupils in these grades?
- Are there any noteworthy differences in pupil learning levels vis-à-vis results from the 2018 SGLA survey?
- Are there noteworthy differences in pupil learning outcomes by gender and other background characteristics?

About the Secondary Grade Learning Assessment

 <p>5,400 JSS2 and SSS2 pupils tested on English and maths</p>	 <p>One-on-one test administration: each pupil is tested individually by a data collector using a handheld computer device</p>	 <p>Approximately 45 minutes per pupil</p>	 <p>40 questions per test covering both English and maths</p>	 <p>Background questions on pupils' age, language spoken at home, assets at home, and use of pupil handbooks.</p>
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¹ Interested readers can access the 2017 and 2018 SGLA reports on <http://www.education.gov.sl/>

What is the level of English and maths skills typically demonstrated by JSS2 and SSS2 pupils?

The SGLA III reiterates finding from previous years: pupil learning levels in secondary grades are generally low. There is a wide gap between pupils’ actual skills and competencies compared to national curriculum expectations. Moreover, results this year suggest a drop in both maths and English scores compared to 2018, with a much bigger drop in maths scores.

For maths, as demonstrated in the figure below, 72 per cent of JSS2 pupils and 60 per cent of SSS2 pupils are performing at a level expected at P6 or below. These pupils have fallen behind by two and five grades respectively. There is, therefore, a larger proportion of pupils in the lowest band in maths compared to English. Only 3 per cent of JSS2 pupils were able to demonstrate skills expected from a pupil in JSS2. Even though a higher proportion of SSS2 pupils were placed in higher performance bands, most pupils had fallen behind by up to 5 years. In the test, only 6 per cent of SSS2 pupils were able to show skills expected from a student in JSS2 (i.e. fallen behind by three years) and none were able to show skills expected at their level.

Figure 1: Distribution of JSS2 and SSS2 pupils across maths grade-level performance bands

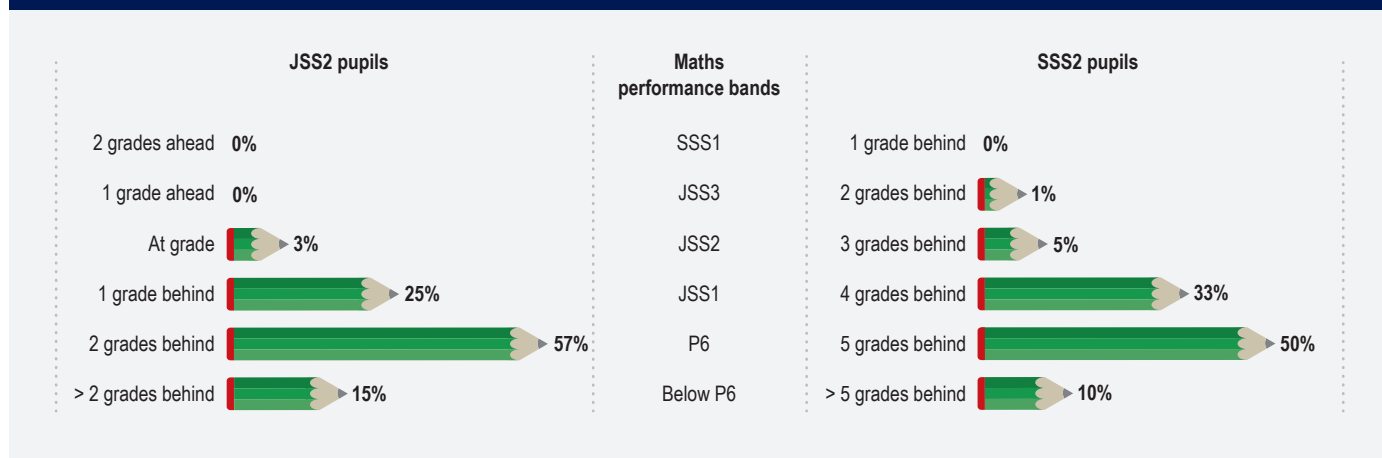
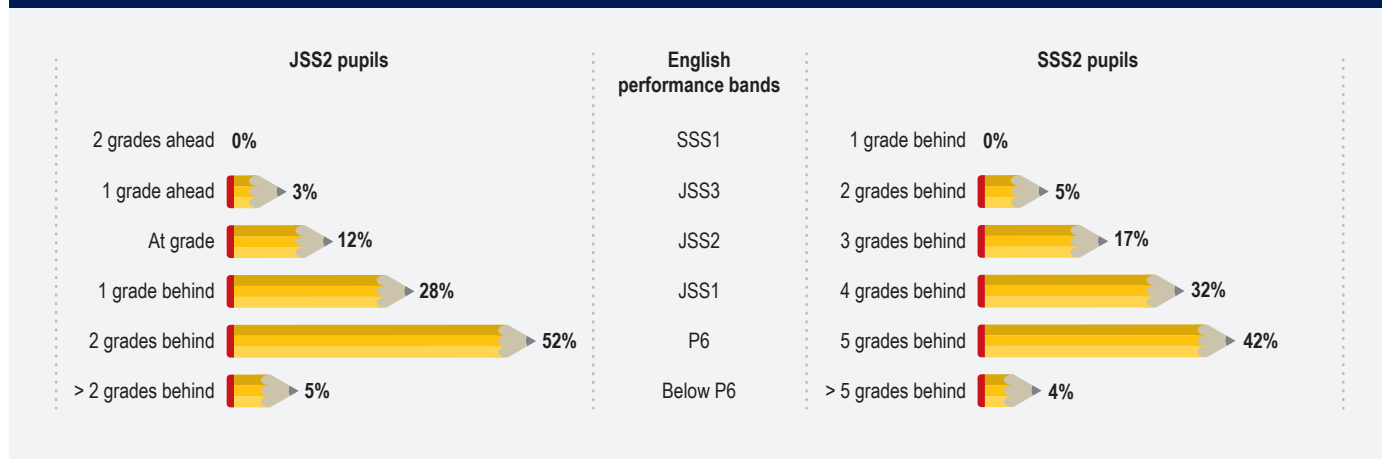


Figure 2: Distribution of JSS2 and SSS2 pupils across English grade-level performance bands

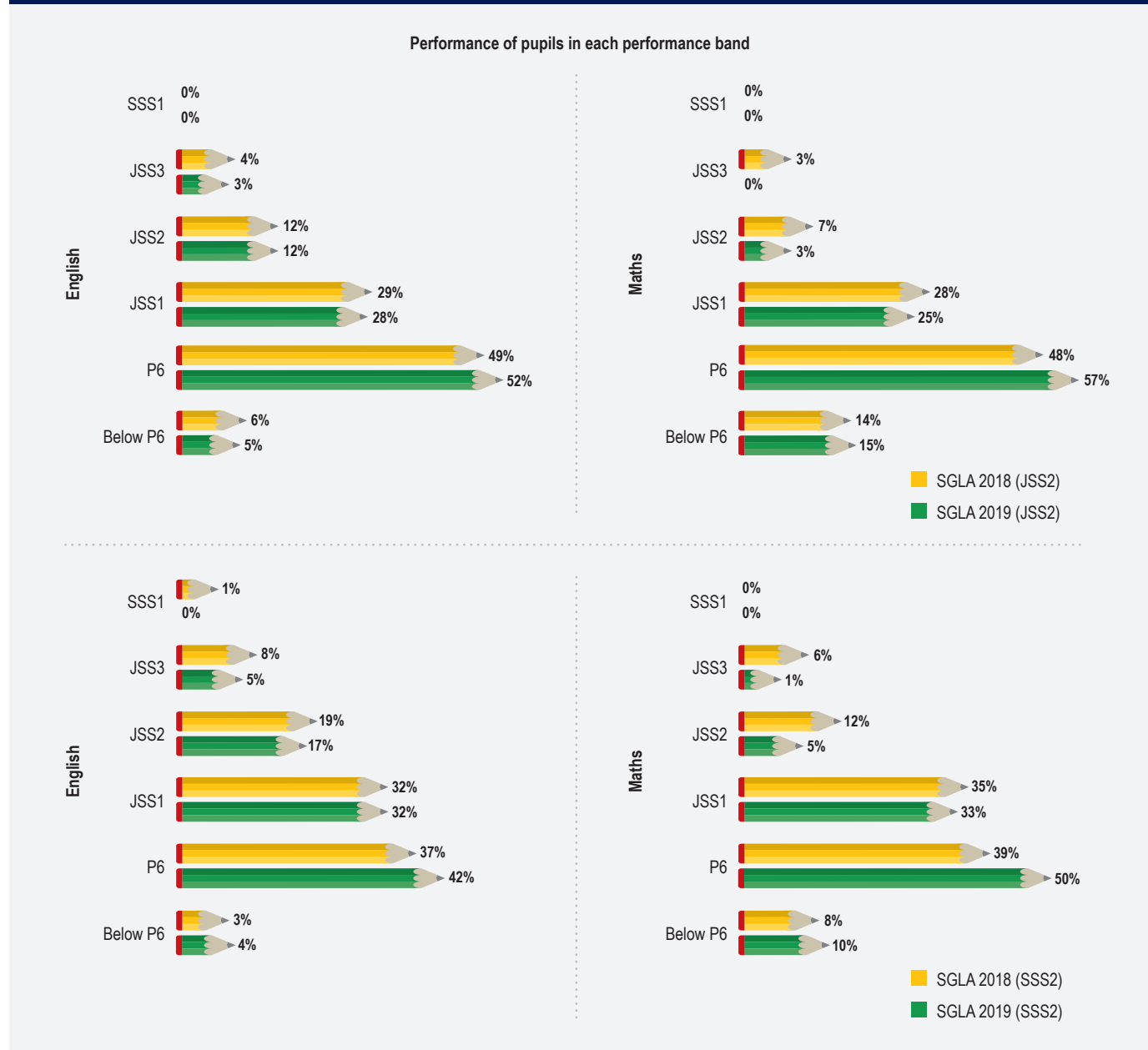


For English, as demonstrated in the figure above, 57 per cent of JSS2 pupils and 46 per cent of SSS2 pupils are performing at a level that is expected from pupils in P6 or below. These pupils are unable to show skills expected at their level and have fallen behind curriculum expectations by 2 and 5 years respectively. Around 12 per cent of pupils were able to exhibit skills that are appropriate for their grade and 3 per cent of pupils demonstrated skills exceeding expectations. A higher proportion of SSS2 pupils were placed in higher performance bands. However, a majority of SSS2 pupils (54 per cent) are still falling behind by up to 4 years, with no SSS2 pupil exhibiting skills that are expected from pupils at an SSS level.

Are there any notable shifts in pupil performance since previous rounds of SGLA?

There is a significant drop in maths scores compared to last year. In previous years, maths scores had remained relatively stable with small improvement in lower bands. Indeed, we find a significant drop, with more pupils falling within lower performance bands (JSS1 or below), and consequently fewer pupils performing at grade or above (JSS2 or above). **For English, we see a continuation of decline in scores from what was observed in 2018.** More pupils now show skills expected at the P6 level or below, and therefore fewer in the higher performance bands. This is true for both JSS2 and SSS2 pupils. However, the drop in English scores is not as stark as the drop in maths scores.

Figure 3: Comparing pupil performance between SGLA II and III results



Comparing results for specific questions

It is useful to provide examples of questions where significantly fewer pupils gave correct answers in 2019 than they did in all previous rounds. For English, the example provided refers to questions testing pupils' ability to extract information from the given text. Similarly, for maths, the questions test the ability to use information from a figure. The figures below include the full text of the questions and the graphs show the percentage of pupils who answered these questions correctly.

There are considerable differences in percentage of pupils correctly answering questions on English and maths at the JSS and SSS levels. Performance has significantly declined in SGLA III from SGLA II across both levels and subjects.

Comparing results across SGLA II and III for specific English questions

Item 1:

According to its Facebook page, when is Jobsearch's next free training session? Write your answer here.

Item 2:

Where do you go to get your free training? Write your answer here.

Item 3:

What do you do if you want to take part in this training?

- A. Call: +232 44 669199
- B. Email: training@jobsearchsl.com
- C. Email: training@jobsearchinsieraleone.com
- D. Use the comment option under the light bulb



Comparing results across SGLA II and III for specific maths questions

The barplot shows the prices of some foods in June and December. For eggs, the price is the cost of one egg. For the other foods, the prices are the cost of one kilogram (kg) in Leones.

Use information in this barplot to answer the first question, fill in the blanks in the following three sentences and answer two questions.

Item 1:

The price of _____ was about the same in both June and December.

Item 2:

_____ are the only food that was more expensive in December.

Item 3:

A kilogram of _____ is the food with the biggest change in price.

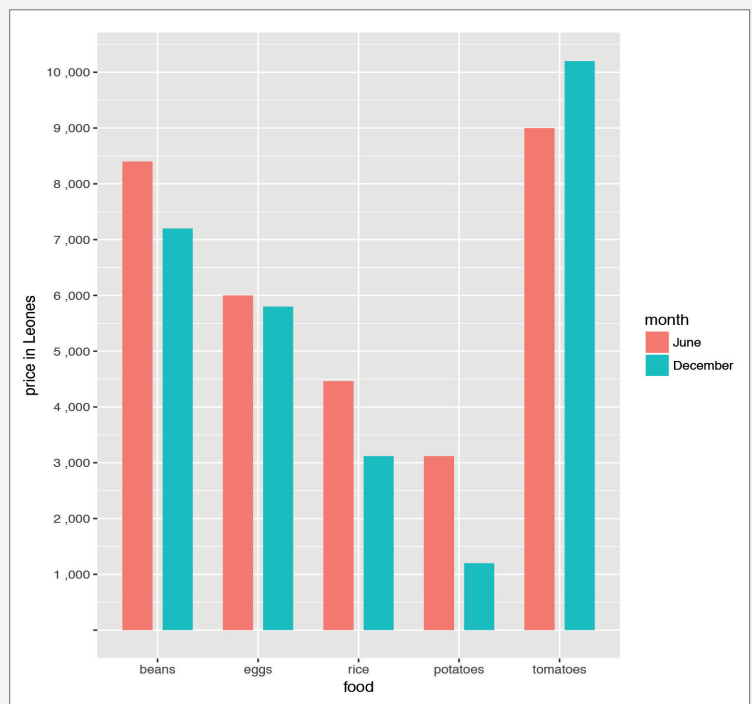
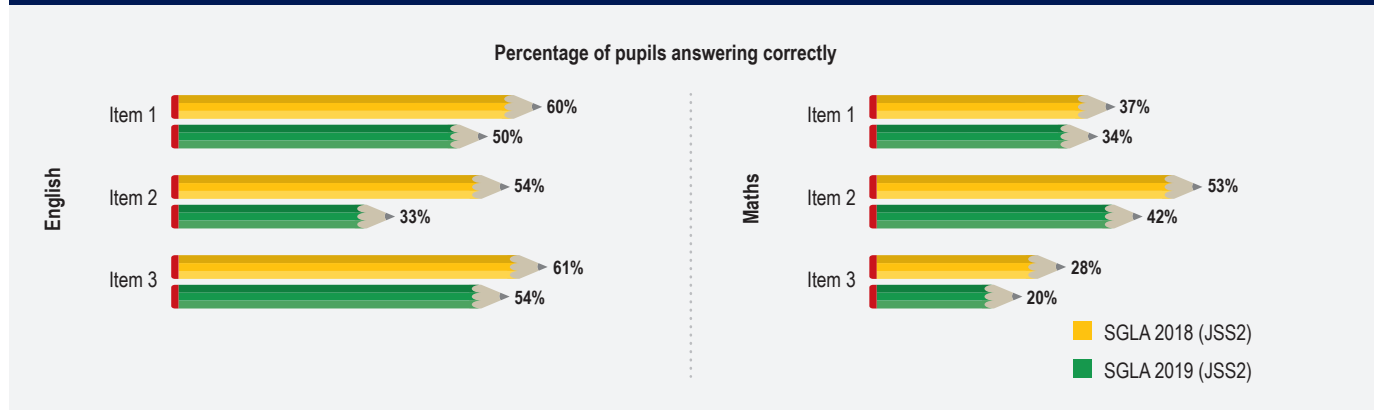
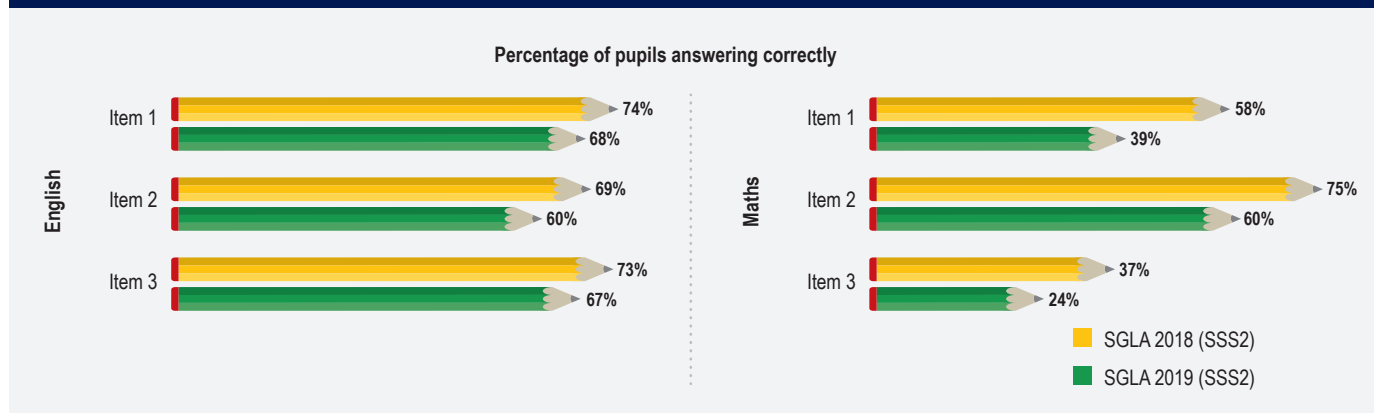
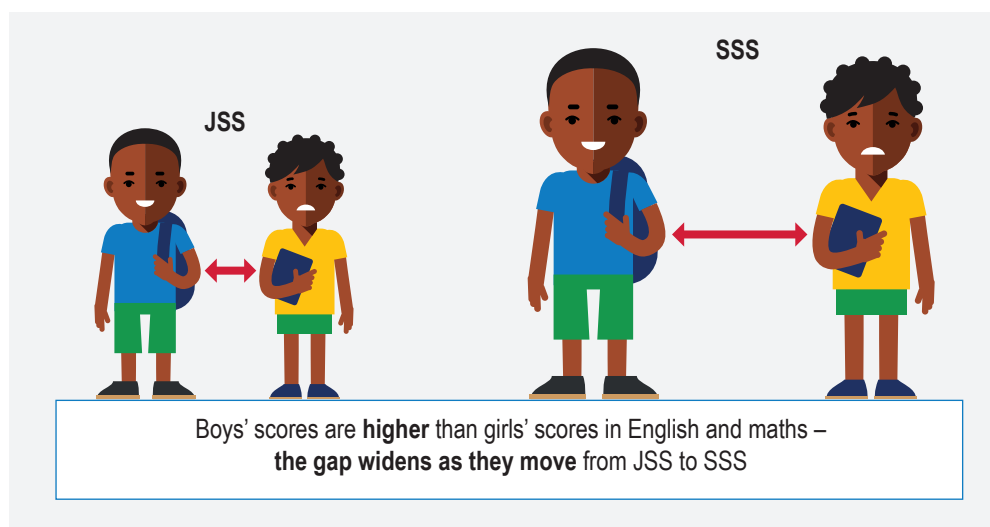


Figure 4: Notable differences in JSS2 pupil performance for specific questions**Figure 5: Notable differences in SSS2 pupil performance for specific questions**

How does pupil learning vary by gender?

Across both JSS2 and SSS2, boys perform better than girls, on average. The gap between boys and girls also widens as they move from JSS2 to SSS2. Girls are more likely to be performing at P6 or below compared to boys for both maths and English. These results are similar to previous rounds of SGLA. Across all three years of the survey, there has been a very small percentage of

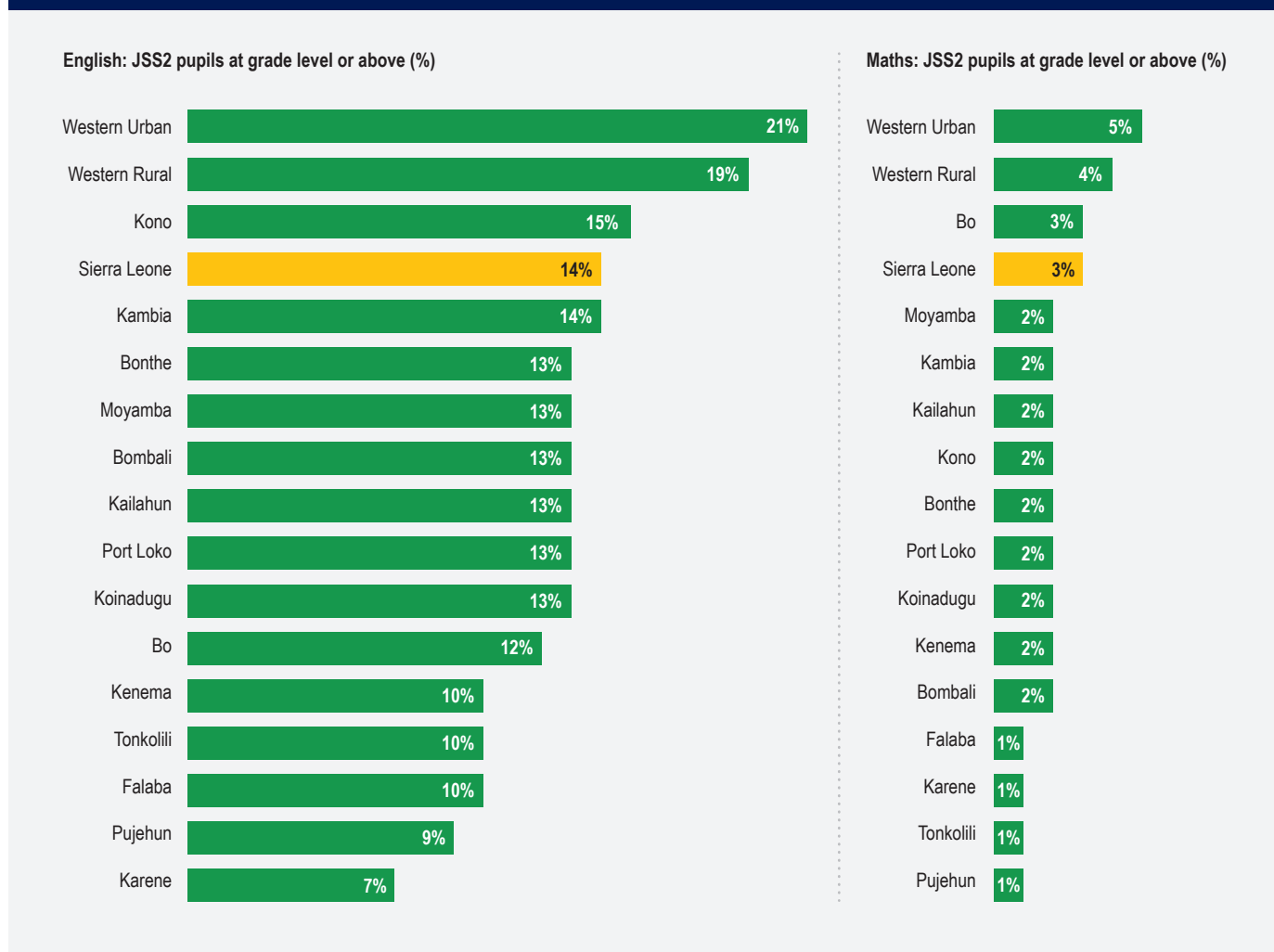
female teachers in school. In addition to this, about half of the teachers interviewed reported that female students are absent during menstruation. Teachers also reported that girls face harassment on their way to and from the school; receive insults from teachers; and sexual harassment from male pupils and teachers. These factors could influence the performance of girls and could explain why they are lagging behind.



How does pupil learning vary across provinces and districts?

There are significant regional differences in pupils' performance – pupils in Western Urban and Western Rural districts continue to score significantly higher than the national average in both subjects. For instance, in JSS2 English, Western urban, Western rural and Kono districts all have higher proportions of JSS2 pupils performing “at grade” compared to the national average. Western region tends to have less pupils in the P6 or below bands and more in the bands associated with higher grades; this is true for both subjects but differences are less pronounced in maths.² As observed in previous years, Falaba, Pujehun, and Karene are falling behind with 10 per cent or less pupils performing at grade level or above. For maths, both districts of the Western region have more pupils performing at grade or above than the national average.

Figure 5: District disparities in pupil performance (JSS2 English and maths)



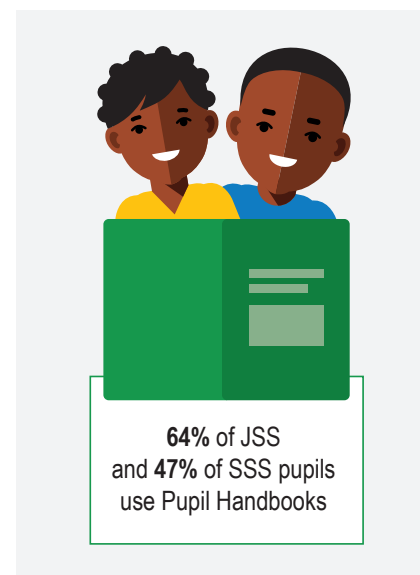
When observing the differences in performance between boys and girls, it is worth mentioning that there exists a large variation across the country, and the picture is quite mixed. The performance gap between boys and girls at the JSS2 level is fairly muted for maths. However, we observe a slightly starker difference for English. In Moyamba, girls outperform boys as 16 per cent exhibit skills at grade level or above against 10 per cent of boys. However, in Koinadugu, Kailahun, Kenema, and Kambia, the gaps are larger with about 10 percentage points more boys performing at grade level or above compared to girls.

² Readers can access detailed reports for each district in the SGLA III district factsheets.

Are pupils who are using Pupil Handbooks performing better?

Pupil Handbooks were introduced in government-owned and -assisted secondary schools across Sierra Leone in December 2018. These provide textual accompaniment to lessons in the classroom. The pupil handbooks contain overviews of content taught in class and exercises for pupils to complete. Almost 60 per cent of all targeted JSS and SSS pupils said they now use pupil handbooks, with more usage by JSS pupils (64 per cent) as compared to SSS pupils (47 per cent). MBSSE approved schools, at the JSS and SSS level, had much higher handbook uptake compared to unapproved schools.

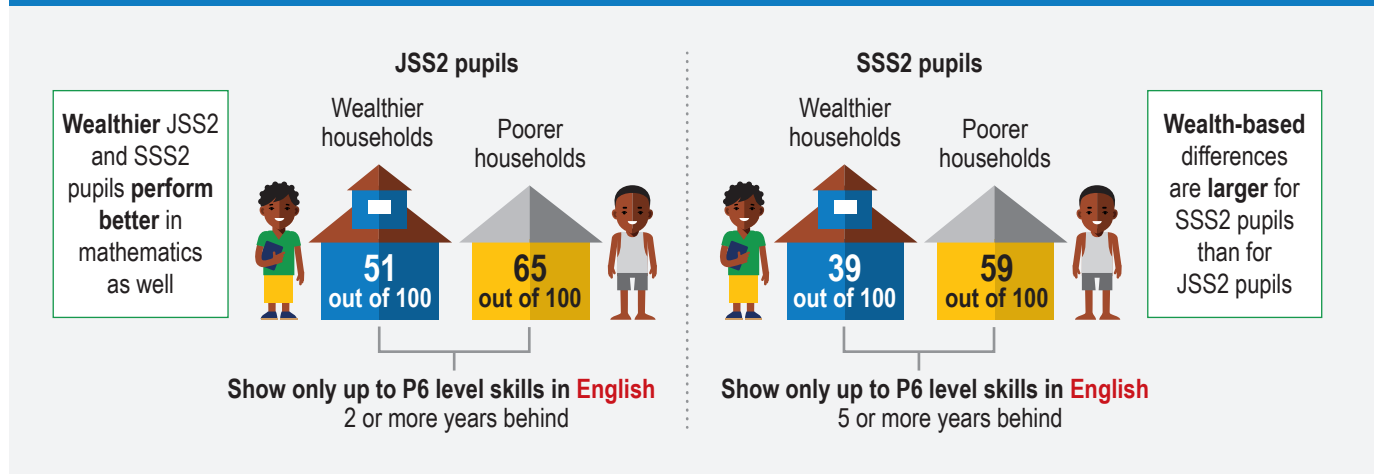
At the JSS level, 66 per cent of pupils studying in MBSSE approved schools reported the use of pupil handbooks compared to 37 per cent in unapproved schools. Pupils at both the JSS and SSS level reporting the use of handbooks were performing slightly better in the pupil test; however, this association does not imply causation. Pupils with disabilities find the handbooks more difficult to use than pupils who report not having any disabilities. Female pupils find the handbooks more difficult to use than male pupils. Pupils from schools which are more remote (further from district centres) also find the handbooks more difficult than pupils in less remote schools. Unsurprisingly, these findings point to the insight that the handbooks are more difficult to use for pupils who are already identified as falling behind. Confirming this assertion is the result that students who use textbooks are more likely to find using the handbook easier to use. Thus, the pupil handbook can be thought of as a resource that is being used widely, by those who receive it, but is most advantageous to those pupils who are not already struggling to keep up with the rest of their class.



What is the relationship between pupils' test scores and family background?

Pupils' own family background is one of the biggest determinants of their learning level. Across both grades, pupils from the richest households (i.e. top 20 per cent pupils based on a household asset index) perform significantly better than pupils from the poorest 20 per cent of households.

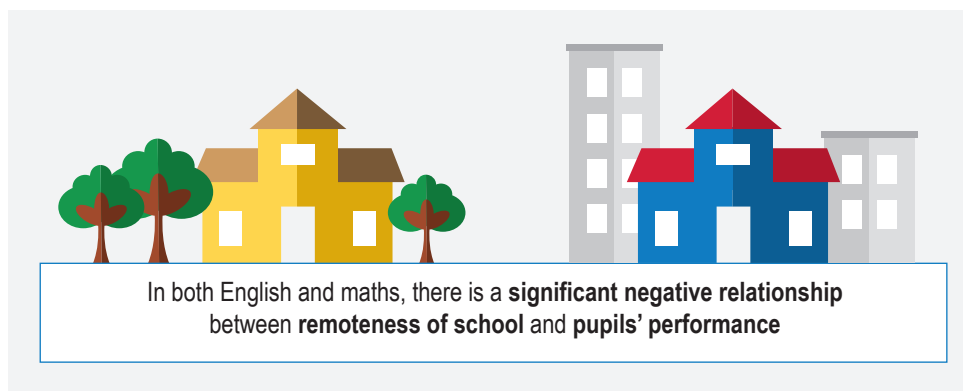
Pupils from wealthier households perform better than pupils from poorer households



Can school location predict pupil learning?

In both English and maths, there is a significant negative relationship between remoteness of school and pupils' performance. In other words, pupils' learning levels drop as we travel away from schools that are located near the district headquarter town, towards more remote schools.

Pupils from remote schools, across both JSS2 and SSS2 grades, are more likely to feature in the lower performance bands (P6 or below). This result is consistent with midline findings from 2018 and baseline findings from 2017. A number of factors could contribute to this relationship. For instance, this survey provides indicative evidence that schools farther away from district headquarter towns are generally not as well-managed as those near the district headquarter towns. More remote schools are significantly worse in terms of their learning environment and overall school management indices. In terms of administration and planning, schools near district capitals are the strongest. The survey finds that schools that are approved by MBSSE are, on average, located closer to the district headquarter (less remote) than unapproved schools.



Concluding remarks

The main overarching observation from both rounds of SGLAs is that secondary grade learning levels in Sierra Leone are low. Large proportions of pupils do not demonstrate more than basic English and maths skills despite completing eight (JSS2) to 11 (SSS2) years of formal education and passing the NPSE and BECE. After observing a drop in pupil performance in English from 2017 to 2018, we continue to observe a further drop in both subjects this year, especially maths.

There is very little progression in pupils' learning outcomes as they move up the grades. Starting with a weak foundation in JSS, pupils are understandably unable to capitalise on previous knowledge and therefore progression in learning from JSS to SSS grades is minimal. Despite 8-11 years of schooling and having officially passed the NPSE, a large proportion of pupils in both grades are demonstrating no more than some very basic English and maths skills and will most likely find it very difficult to respond to the pace of the BECE or WASSCE curriculum which makes much more ambitious demands from its exam-takers.

Those who demonstrate some of the more demanding skills are more likely to be male pupils, from wealthier households, whose schools are less remotely located and are typically from the Western or Eastern regions, while those who perform lower on average are more likely to be female pupils, from less wealthy households and remote schools – a combination of these is likely to imply a multiple burden of disadvantage for the pupil.

About the project and contact details

Leh Wi Lan/Sierra Leone Secondary Education Improvement Programme (SSEIP) is a five-year (2016-2021) UKaid-funded programme aimed at improving English and maths learning achievement in all secondary schools, especially for girls. This briefing note was produced under *Leh Wi Lan's* monitoring, evidence and research workstream as part of the annual secondary grade learning assessment. Any views and opinions expressed do not necessarily reflect those of UK Department for International Development, Sierra Leone Ministry of Basic and Senior Secondary Education, Mott MacDonald or Oxford Policy Management.

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