Sao Tome and Principe

Region: Sub-Saharan Africa
Income Group: Lower Middle Income

Source for region and income groupings: World Bank 2018

National Education Profile
2018 Update

OVERVIEW

In Sao Tome and Principe, the academic year begins in September and ends in June, and the official primary school entrance age is 6. The system is structured so that the primary school cycle lasts 6 years, lower secondary lasts 3 years, and upper secondary lasts 3 years. Please note that this represents the official UNESCO-ISCED definition of primary and secondary education, which differs from the national definition. UNESCO definitions are used for all tables and figures, unless otherwise stated. Sao Tome and Principe has a total of 63,000 pupils enrolled in primary and secondary education. Of these pupils, about 37,000 (59%) are enrolled in primary education. Figure 3 shows the highest level of education reached by youth ages 15-24 in Sao Tome and Principe. Although youth in this age group may still be in school and working towards their educational goals, it is notable that approximately 2% of youth have no formal education and 36% of youth have attained at most incomplete primary education, meaning that in total 38% of 15-24 year olds have not completed primary education in Sao Tome and Principe.

SCHOOL PARTICIPATION AND EFFICIENCY

The percentage of out of school children in a country shows what proportion of children are not currently participating in the education system and who are, therefore, missing out on the benefits of school. In Sao Tome and Principe, 12% of children of official primary school ages are out of school as shown in Figure 4, which also considers the proportion of children out of school by different characteristics wherever data is available. For example, Figure 4 shows that approximately 12% of boys of primary school age are out of school compared to 13% of girls of the same age. For children of primary school age in Sao Tome and Principe, the biggest disparity can be seen between the poorest and the richest children. Figure 5 looks at the percentage of youth of secondary school ages who are out of school in Sao Tome and Principe. Nearly 20% of female youth of secondary school age are out of school compared to 21% of male youth of the same age. For youth of secondary school age, the biggest disparity can be seen between the poorest and the richest youth. Please note that Figures 4 and 5 make use of the national definition of primary and secondary education, instead of the UNESCO-ISCED definition.
Figures 6 and 7 look at indicators of participation, completion, and progression in the education system. Figure 6 displays gross indicators (which include under- and over-age students) and net indicators (which include only on-time students of official school age) for student intake, participation, and flows. In Sao Tome and Principe, the gross enrollment rate in primary education is 110% for both girls and boys combined. This decreases to 107% in lower secondary, with a student transition rate to secondary school of 97%. In Sao Tome and Principe, the primary net enrollment rate is 96% and the primary completion rate is 90%. Both of these indicators provide a sense of the progress a country is making towards universal primary education — a key UN Millennium Development Goal — and, for Sao Tome and Principe, suggest that the country has yet to achieve universal primary education. Figure 7 displays the repetition rate in primary education, showing the specific grades in which students are more likely to repeat. It suggests that of the first 5 grades of primary in Sao Tome and Principe, students are more likely to repeat grade 2. The repetition rate in grade 2 is 22.4% (for both males and females), which is 9.8 points higher than the average repetition rate across primary grades of 12.6%.

**LEARNING**

This section provides information on indicators of learning, which lend insight into the quality of educational provision. In this profile, learning is measured through literacy rates, which are important because literacy is a foundational skill needed to attain higher levels of learning, and national performance on learning assessments. Figure 8 demonstrates where Sao Tome and Principe stands in comparison to other low and middle income countries in access to education, measured as the primary school net enrollment rate, and youth literacy. Compared to other countries, Sao Tome and Principe ranks at the 75 percentile in access and at the 51 percentile in learning. Figure 9 compares youth and adult literacy rates and shows that, in Sao Tome and Principe, the literacy rate is 97% among the youth population; this is higher than the average youth literacy rate in other lower middle income countries.
EDUCATION EXPENDITURE

Figures 11 and 12 compare Sao Tome and Principe’s per pupil expenditure (PPE) and pupil teacher ratio (PTR), where data is available, to those of other lower middle income countries. PPE indicates a country’s commitment to education at each school level. In Sao Tome and Principe, PPE in primary education as a percentage of GDP per capita is 12%, lower than the median PPE in primary for lower middle income countries, which is 13%. In Sao Tome and Principe, the PTR is higher than the PPE in secondary. PTR is a proxy learning quality and resource availability indicator. In Sao Tome and Principe, the PTR in primary education is 31.2, meaning that on average there is one teacher for every 31.2 primary school students. This is higher than the median PTR in primary for lower middle income countries, which is 27. In Sao Tome and Principe, the PTR in primary is higher than the PTR in secondary.

FIG 11. PER PUPIL EXPENDITURE (PPE) BY SCHOOL LEVEL (% OF GDP PER CAPITA)

FIG 12. PUPIL TEACHER RATIO (PTR) BY SCHOOL LEVEL

DATA TABLE

In this table, the values of different education indicators for Sao Tome and Principe are compared to all countries, to Sub-Saharan Africa, and to low and middle income countries. The percentile rank that is given indicates Sao Tome and Principe’s standing relative to these country groups. A higher percentile rank indicates better relative performance than a lower percentile rank. Percentile rankings above 66% are considered high and colored in green, rankings between 33% and 66% are considered average and colored in yellow, and rankings below 33% are considered low and colored in red. For example, the gross enrollment rate for females in primary education in Sao Tome and Principe is 108%. For this indicator, Sao Tome and Principe ranks in the 77 percentile relative to all countries, meaning that 77% of countries have lower gross enrollment rates than Sao Tome and Principe. As another example, the survival rate to grade 5 of primary school for males in Sao Tome and Principe is 88%, and Sao Tome and Principe ranks in the 40 percentile relative to all countries, in the 82 percentile relative to Sub-Saharan Africa, and in the 52 percentile relative to low and middle income countries for this indicator.

KEY

<-- needs improvement .......................... can improve further →

below 33% between 33% and 66% percentile above 66%

INDICATOR VALUE YEAR PERCENTILE RANK RELATIVE TO… DATA SOURCE

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Year</th>
<th>All Countries</th>
<th>Sub-Saharan Africa</th>
<th>Low and Middle Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literacy rate, 15+, Female</td>
<td>85</td>
<td>2012</td>
<td>40%</td>
<td>85%</td>
<td>50%</td>
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<tr>
<td>Literacy rate, 15+, Male</td>
<td>95</td>
<td>2012</td>
<td>54%</td>
<td>95%</td>
<td>63%</td>
</tr>
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<td>Literacy rate, 15-24, Female</td>
<td>96</td>
<td>2012</td>
<td>39%</td>
<td>90%</td>
<td>49%</td>
</tr>
<tr>
<td>Literacy rate, 15-24, Male</td>
<td>97</td>
<td>2012</td>
<td>44%</td>
<td>92%</td>
<td>52%</td>
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<tr>
<td>Gross enrollment rate, Primary, Female</td>
<td>95</td>
<td>2017</td>
<td>18%</td>
<td>20%</td>
<td>21%</td>
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<tr>
<td>Gross enrollment rate, Primary, Male</td>
<td>94</td>
<td>2017</td>
<td>16%</td>
<td>25%</td>
<td>19%</td>
</tr>
<tr>
<td>Net intake rate, Primary, Female</td>
<td>87</td>
<td>2017</td>
<td>73%</td>
<td>97%</td>
<td>82%</td>
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<tr>
<td>Net intake rate, Primary, Male</td>
<td>85</td>
<td>2017</td>
<td>69%</td>
<td>97%</td>
<td>76%</td>
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<td>Gross enrollment rate, Primary, Female</td>
<td>108</td>
<td>2017</td>
<td>77%</td>
<td>73%</td>
<td>72%</td>
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<tr>
<td>Gross enrollment rate, Primary, Male</td>
<td>112</td>
<td>2017</td>
<td>80%</td>
<td>68%</td>
<td>75%</td>
</tr>
<tr>
<td>Gross enrollment rate, Lower Secondary, Female</td>
<td>113</td>
<td>2017</td>
<td>88%</td>
<td>97%</td>
<td>92%</td>
</tr>
<tr>
<td>Gross enrollment rate, Lower Secondary, Male</td>
<td>102</td>
<td>2017</td>
<td>67%</td>
<td>92%</td>
<td>79%</td>
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<tr>
<td>Gross enrollment rate, Upper Secondary, Female</td>
<td>77</td>
<td>2017</td>
<td>42%</td>
<td>94%</td>
<td>59%</td>
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<td>Gross enrollment rate, Upper Secondary, Male</td>
<td>62</td>
<td>2017</td>
<td>36%</td>
<td>92%</td>
<td>51%</td>
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<tr>
<td>Net enrollment rate, Primary, Female</td>
<td>96</td>
<td>2017</td>
<td>66%</td>
<td>86%</td>
<td>76%</td>
</tr>
<tr>
<td>Net enrollment rate, Primary, Male</td>
<td>96</td>
<td>2017</td>
<td>71%</td>
<td>92%</td>
<td>80%</td>
</tr>
<tr>
<td>Net enrollment rate, Secondary, Female</td>
<td>65</td>
<td>2015</td>
<td>36%</td>
<td>91%</td>
<td>52%</td>
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<tr>
<td>Net enrollment rate, Secondary, Male</td>
<td>61</td>
<td>2015</td>
<td>34%</td>
<td>91%</td>
<td>50%</td>
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<tr>
<td>Repetition rate, Primary, Female</td>
<td>15</td>
<td>2016</td>
<td>9%</td>
<td>22%</td>
<td>12%</td>
</tr>
<tr>
<td>Repetition rate, Primary, Male</td>
<td>15</td>
<td>2016</td>
<td>9%</td>
<td>22%</td>
<td>12%</td>
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<tr>
<td>Dropout rate, Primary, Female</td>
<td>25</td>
<td>2008</td>
<td>2%</td>
<td>25%</td>
<td>70%</td>
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<tr>
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<td>2008</td>
<td>14%</td>
<td>49%</td>
<td>19%</td>
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<tr>
<td>Survival rate, to Prim GS, Female</td>
<td>89</td>
<td>2010</td>
<td>33%</td>
<td>78%</td>
<td>50%</td>
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<tr>
<td>Survival rate, to Prim GS, Male</td>
<td>88</td>
<td>2010</td>
<td>40%</td>
<td>82%</td>
<td>52%</td>
</tr>
<tr>
<td>Completion rate, Primary, Female</td>
<td>89</td>
<td>2017</td>
<td>33%</td>
<td>87%</td>
<td>42%</td>
</tr>
<tr>
<td>Completion rate, Primary, Male</td>
<td>84</td>
<td>2017</td>
<td>28%</td>
<td>82%</td>
<td>35%</td>
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<td>Transition rate, to Secondary, Female</td>
<td>106</td>
<td>2016</td>
<td>86%</td>
<td>89%</td>
<td>93%</td>
</tr>
<tr>
<td>Transition rate, to Secondary, Male</td>
<td>25</td>
<td>2006</td>
<td>28%</td>
<td>82%</td>
<td>35%</td>
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<tr>
<td>Pupil teacher ratio, Primary</td>
<td>31</td>
<td>2017</td>
<td>21%</td>
<td>74%</td>
<td>31%</td>
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<tr>
<td>Pupil teacher ratio, Lower Secondary</td>
<td>19</td>
<td>2017</td>
<td>54%</td>
<td>75%</td>
<td>47%</td>
</tr>
<tr>
<td>Pupil teacher ratio, Upper Secondary</td>
<td>26</td>
<td>2016</td>
<td>12%</td>
<td>22%</td>
<td>16%</td>
</tr>
<tr>
<td>Public education expenditure per pupil (% of GDP per capita), Primary</td>
<td>12</td>
<td>2014</td>
<td>33%</td>
<td>54%</td>
<td>42%</td>
</tr>
<tr>
<td>Public education expenditure per pupil (% of GDP per capita), Secondary</td>
<td>8</td>
<td>2014</td>
<td>33%</td>
<td>54%</td>
<td>42%</td>
</tr>
</tbody>
</table>

* Includes World Bank classified low and middle income countries

* EPDC calculation based on UIS data

* Education Policy and Data Center (EPDC)*

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* Education Policy and Data Center (EPDC)*

* Education Policy and Data Center (EPDC)*

* Education Policy and Data Center (EPDC)*

* Education Policy and Data Center (EPDC)*

* Educational and Health Surveys (DHS) Dataset

* Demographic and Health Surveys (DHS) Dataset

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Lowest Performance Benchmark

Highest Performance Benchmark

Educational Quality (SACMEQ)
Southern and Eastern Africa Consortium for Monitoring Educational Quality (SACMEQ)

Trends in International Mathematics and Science Study (TIMSS)*

Second Regional Comparative and Explanatory Study (SERCE)*

Data Sources and Learning Assessments

Demographic and Health Survey (DHS)
Multiple Indicator Cluster Survey (MICS)
UNESCO Institute for Statistics (UIS)
Analysis Programme of the CONFEMEN Education Systems (PASEC)*

Progress in International Reading Literacy Study (PIRLS)*

Trends in International Mathematics and Science Study (TIMSS)*

Glossary

Completion Rate
The total number of students completing (or graduating from) the final year of primary or secondary education, regardless of age, expressed as a percentage of the population of the official primary or secondary graduation age.

Dropout Rate
Proportion of pupils from a cohort enrolled in a given grade at a given year who are no longer enrolled in the following school year.

Educational Attainment
The highest level of education an individual has achieved.

Gross Enrollment Rate (GER)
Total enrollment in a specific level of education, regardless of age, expressed as a percentage of the official school-age population corresponding to the same level of education in a given school-year. Often higher than 100% because of repetition and overage students.

Gross Intake Ratio (GIR)
Total number of new entrants in the first grade of primary education, regardless of age, expressed as a percentage of the population at the official primary school-entrance age.

Literacy Rate
The ability to read and write with understanding a simple statement related to one’s daily life. Literacy often involves a continuum of reading and writing skills.

Net Enrollment Rate (NER)
Enrollment of the official primary age-group for a given level of education expressed as a percentage of the corresponding population.

Net Intake Rate (NIR)
New entrants in the first grade of primary education who are of the official primary school entrance age, expressed as a percentage of the population of the same age.

Percentage of Children Out of School
Proportion of children of a given age group who are not currently enrolled in any schooling.

Public Education Expenditure per Pupil (PPE)
Total number of pupils/Total education budget.

Pupil Teacher Ratio (PTR)
Average nationally of Total number of pupils/Total number of teachers. Rates may vary significantly throughout the country.

Repetition Rate
Proportion of pupils from a cohort enrolled in a given grade at a given school-year who study in the same grade in the following school-year.

Survival Rate
Percentage of a cohort of pupils enrolled in the first grade level or cycle of education in a given school year who are expected to survive through a certain grade regardless of repetition.

Transition Rate
The number of pupils admitted to the first grade of a higher level of education in a given year, expressed as a percentage of the number of pupils enrolled in the last grade of the lower level of education in the previous year.

Both
Measures using “Both” in their title combine male and female rates.

Poorest Quintile
Proportion of pupils who belong to the bottom 20% of a country’s population, based on household wealth measured by an index of household assets.

Richest Quintile
Proportion of pupils who belong to the top 20% of a country’s population, based on household wealth measured by an index of household assets.

Data Sources and Learning Assessments

Demographic and Health Survey (DHS)
Nationally-representative household surveys that provide data for a wide range of indicators in the areas of population, health, and nutrition. They have large sample sizes (between 3,000 to 50,000 households) and are typically conducted about every 5 years in developing countries. It is funded by USAID and implemented by ICF International.

Multiple Indicator Cluster Survey (MICS)
Household surveys that produce internationally comparable estimates of a range of indicators in the areas of health, education, child protection and HIV/AIDS. It is developed by UNICEF to provide statistically rigorous data on the situation of children and women. Since the mid-1990s, there has been 4 rounds of the MICS survey, with the latest in 2009-2011.

UNESCO Institute for Statistics (UIS)
Statistical office of UNESCO and the primary UN depository for cross-nationally comparable statistics on education, science and technology, culture, and communication covering more than 200 countries and territories. It was established in 1999 and collects data directly from the national statistics agencies of its members.

Analysis Programme of the CONFEMEN Education Systems (PASEC)*
PASEC has been administered in 13 countries in Francophone West Africa. PASEC is designed to assess student abilities in mathematics and reading French. The program is managed by CONFEMEN (La Conférence des Ministres de l’Éducation des pays ayant le français en partage) and has been in place since 1993. It is typically administered to students in 2nd and 5th grades.

Progress in International Reading Literacy Study (PIRLS)*
The PIRLS reading assessment, which is carried out by the International Association for the Evaluation of Educational Achievement (IEA), is an assessment of reading comprehension skills. In most countries, PIRLS is administered in school to children in the 4th grade of formal school, every five years since 2001. In a small number of countries, it may be administered at a different grade level.

Trends in International Mathematics and Science Study (TIMSS)*
The TIMSS math assessment, which is carried out by the International Association for the Evaluation of Educational Achievement (IEA), assesses pupils knowledge and understanding of mathematical concepts. TIMMS has been administered to children in the 4th and 8th grades of formal schools every four years since 1995. In a small number of countries, it may be administered at different grade levels.

Second Regional Comparative and Explanatory Study (SERCE)*
The SERCE assessment was administered in 16 countries in Latin America and the Caribbean by the Latin American Laboratory for Assessment of the Quality of Education (LLECE) in 2006. SERCE was administered to children in the 3rd and 6th grades of formal school. It measures student ability in the areas of reading, mathematics, and science.

Southern and Eastern Africa Consortium for Monitoring Educational Quality (SACMEQ)*
The SACMEQ assessment is designed to assess student abilities in mathematics and reading English. SACMEQ reading and math assessments have been carried out in countries in Anglophone East Africa in 1995, 2000, and 2007. SACMEQ is administered in school to children in the 6th grade of formal school.

Highest Performance Benchmark*
The highest test-specific performance or learning levels of an assessment. These benchmarks are different for each assessment because each assessment uses different constructs, tools, and procedures. Additionally, assessments vary in the standards for each learning achievement benchmark, the number of benchmarks according to which test-takers can be evaluated, and the youth populations they test.

Lowest Performance Benchmark*
The lowest test-specific performance or learning levels of an assessment. These benchmarks are different for each assessment because each assessment uses different constructs, tools, and procedures. Additionally, assessments vary in the standards for each learning achievement benchmark, the number of benchmarks according to which test-takers can be evaluated, and the youth populations they test.