# Sweden

### Ensuring equal opportunities for students across socio-economic backgrounds

- Socio-economic status may significantly impact students' participation in education, particularly at levels of education that rely, in many countries, most heavily on private expenditure, such as early childhood education and care and tertiary education. This is less the case in Sweden: private sources accounted for 5% of total expenditure in pre-primary institutions, lower than the OECD average of 17%. At tertiary level, 12% of expenditure comes from private sources in Sweden, compared to 30% on average across OECD countries.
- Tuition fees in public institutions in Sweden are among the lowest for a bachelor's programme across countries with available data. There are no tuition fees for a bachelor's degree for national students.
- Across most OECD countries, socio-economic status influences learning outcomes more than gender and immigrant status. In Sweden, the proportion of children from the bottom quartile of the PISA index of economic, social and cultural status (ESCS) achieving at least PISA level 2 in reading in 2018 was 23% lower than that of children from the top ESCS quartile, a smaller share than the OECD average of 29%.
- Students from lower socio-economic background are more likely to enter upper secondary vocational programmes than general ones. In Sweden, students without any tertiary-educated parent represented 71% of entrants to upper secondary vocational programmes, compared to 43% among entrants to general programmes.
- International student mobility at the tertiary level has risen steadily reaching about 30 900 students in Sweden and representing 7% of tertiary students in 2019. The largest share of international tertiary students studying in Sweden comes from China. Students from low and lower-middle income countries are generally less likely to study abroad. In 2019, they represented 29% of international students in OECD countries, compared to 20% in Sweden.
- Large differences in educational attainment may lead to starker earnings inequality in many countries. In Sweden, 25% of 25-64 year-old adults with below upper secondary attainment earned at or below half the median earnings in 2019, below the OECD average of 27%.

### Gender inequalities in education and outcomes

- In Sweden, 1.3% of students in upper secondary initial education repeated a grade in 2019, compared to 3% on average across OECD countries. Boys are more likely to repeat a grade at upper secondary initial education than girls. In Sweden, 51% of repeaters at upper secondary level were boys, lower than the OECD average of 57%.
- Men are more likely than women to pursue a vocational track at upper secondary level in most OECD countries. This is also the case in Sweden, where 60% of upper secondary vocational graduates in 2019 were men (compared to the OECD average of 55%). Women are generally more

likely to graduate from upper secondary general programmes. This is also the case in Sweden, where women represent 53% of graduates from upper secondary general programmes, compared to 55% on average across OECD countries (Figure 1).

- Tertiary education has been expanding in the last decades, and, in 2020, 25-34 year-old women were more likely than men to achieve tertiary education in all OECD countries. In Sweden, 58% of 25-34 year-old women had a tertiary qualification in 2020 compared to 40% of their male peers, while on average across OECD countries the shares were 52% among young women and 39% among young men.
- Gender differences in the distribution of tertiary entrants across fields of study are significant. Women tend to be under-represented in certain fields of science, technology, engineering and mathematics (STEM) across most OECD countries. On average, 26% of new entrants in engineering, manufacturing and construction and 20% in information and communication technologies were women in 2019. In Sweden, women represented 31% of new entrants in engineering, manufacturing and construction programmes and 29% in information and communication technologies. In contrast, they represented 76% of new entrants to the field of education, a sector traditionally dominated by women. In Sweden, men represent 29% of teachers across all levels of education, compared to 30% on average across OECD countries.
- Young women are less likely to be employed than young men, particularly those with lower levels
  of education. Only 46% of 25-34 year-old women with below upper secondary attainment were
  employed in 2020 compared to 69% of men in Sweden. This gender difference is slightly smaller
  than the average across OECD countries, where 43% of women and 69% of men with below upper
  secondary attainment are employed.
- In nearly all OECD countries and at all levels of educational attainment, 25-64 year-old women earn less than their male peers: their earnings correspond to 76%-78% of men's earnings on average across OECD countries. This proportion varies more across educational attainment levels within countries than on average across OECD countries. Compared to other education levels, women with tertiary education in Sweden have the lowest earnings relative to men with a similar education level, earning 80% as much, while those with below upper secondary education earn 86% as much.
- On average across OECD countries with available data, 25-64 year-old women tend to participate slightly more in adult learning than men of the same age. In Sweden, 68% of women participated in formal and/or non-formal education and training in 2016, compared to 60% of men. Family reasons were reported as barriers to participation in formal and/or non-formal education and training by 34% of women compared to 24% of men.

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#### Vocational General 80 $\bigcirc$ 60 $\bigcirc$ 40 20 0 Denmark Slovenia Poland Republic Austria Norway Estonia Belgium EU22 average Portugal France Brazil Latvia Greece Colombia Turkey Chile Republic Spain Costa Rica Luxembourg Mexico Netherlands Sweden Hungary Australia Israe Japan Ireland Korea Italy (1) lceland Finland **DECD** average Lithuania Russian Federation Vew Zealand Switzerland Germany **Jnited States** Canada **Jnited Kingdom** Czech Slovak '

### Figure 1. Share of women among upper secondary graduates, by programme orientation (2019)

1. Includes post-secondary non-tertiary level.

In per cent

Countries are ranked in descending order of the share of women in general programmes.

Source: OECD (2021). Table B3.1. See Source section for more information and Annex 3 for notes (<u>https://www.oecd.org/education/education-at-a-glance/EAG2021\_Annex3\_ChapterB.pdf</u>).

### **Education and migration background**

- On average across the OECD, foreign-born adults (25-64 year-olds) account for 22% of all adults with below upper secondary attainment, 14% of those attaining upper secondary or post-secondary non-tertiary attainment, and 18% of tertiary-educated adults. In Sweden as in most OECD countries, the share of foreign-born adults among all adults with a given level of educational attainment is the highest among adults with below upper secondary attainment (50%) in 2020.
- Foreign-born adults have more difficulty finding a job than their native-born peers as they face various challenges, such as discrepancies in credential recognition, skills, and language. Thus, foreign-born workers are likely to have a lower reservation wage (the lowest wage rate at which a worker would be willing to accept a particular type of job). As a result, the employment rate for foreign-born adults with low educational attainment is higher than the rate for their native-born peers in many countries. On average across OECD countries, among adults without upper secondary attainment, 57% of native-born adults are employed compared to 61% of foreign-born adults. In Sweden, however, the employment rate of foreign-born adults without upper secondary attainment was 53% in 2020, lower than that of their native-born peers (74%).
- The likelihood of being employed increases with the level of educational attainment, but foreign-born adults with tertiary attainment generally have lower employment prospects than their native-born peers. On average across OECD countries, 86% of native-born tertiary-educated adults are employed compared to 79% for foreign-born tertiary-educated adults. In Sweden, among tertiary-educated adults, 93% of native-born adults and 79% of foreign-born adults are employed.

Foreign-born adults who arrived in the country at an early age have spent some years in their host country's education system and gained nationally recognised credentials. As a result, their labour-market outcomes are generally better than that of those who arrived at a later age with a foreign qualification. In Sweden, however among foreign-born adults with tertiary attainment, 79% of those who arrived by the age of 15 are employed, compared to 83% of those who arrived in the country at age 16 or later.

- Foreign-born young adults (15-29 year-olds) are also more likely to be neither employed nor in education or training (NEET) than native-born young adults. On average across OECD countries, 18.8% of foreign-born and 13.7% of native-born adults are NEET. In Sweden, those levels are lower, both for foreign-born and native-born young adults, 11.2% and 6.5%. Early arrival in the country is generally associated with a lower risk of becoming NEET. In Sweden, the share of NEETs among foreign-born young adults who arrived by the age of 15 is 9%, while the share of NEETs among those who arrived at age 16 or later is 14%.
- In many OECD countries, foreign-born adults earn less than native-born adults. This pay gap may
  narrow with higher levels of educational attainment. On average across OECD countries,
  foreign-born adults with below secondary attainment working full-time earn 89% as much as their
  native-born peers, while this gap disappears among tertiary-educated adults. In Sweden, in 2019,
  among adults with below upper secondary attainment, the earnings of foreign-born full-time
  workers represented 89% that of their native-born peers, 90% among adults with upper secondary
  or post-secondary non-tertiary attainment, and 94% among those with a tertiary-education.

### **Cross-regional disparities in education**

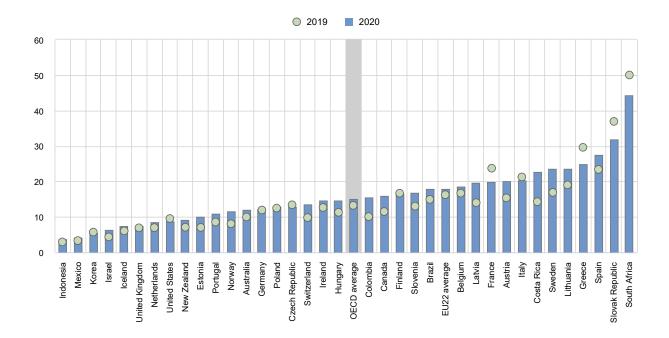
- National level data often hide important regional inequalities in children's access and participation to education. In general, inequalities across regions tend to widen at non-compulsory levels of education. For example, in the majority of countries, the variation in enrolment rate of 3-5 year-olds is often greater than the variation among 6-14 year-olds. This is the case in Sweden, where the enrolment rate of 3-5 year-olds varies from 93% in the region of Stockholm to 96% in the region of Central Norrland whereas the enrolment of 6-14 year-olds varies from 99% to 100% across regions. Similarly, the enrolment rate of 15-19 year-olds varies from 87% to 90% in Sweden.
- Tertiary attainment may vary significantly within a country. In Sweden, the share of 25-64 year-old adults with tertiary education varies from 35% in the region of North Middle Sweden to 54% in the region of Stockholm, a similar regional variation as the average across OECD countries with available data.
- On average across OECD and partner countries with subnational data on labour-force status, there
  is more regional variation in employment rates among those with below upper secondary education
  (17 percentage points) than for those with tertiary education (8 percentage points). In Sweden,
  there is a difference of 18 percentage points in the employment rate of adults with below upper
  secondary education between different regions of the country compared to 4 percentage points for
  tertiary-educated adults.
- The proportion of young people who are NEET shows significant subnational as well as national variation across OECD and partner countries. In Sweden, the difference in the share of 18-24 year-old NEETs between regions with the highest and lowest value is 5 percentage points, compared to 11 percentage points on average across OECD countries.

### **COVID-19: 18 months into the pandemic**

- The spread of COVID-19 has continued to impede access to in-person education in many countries around the world in 2021. By mid-May 2021, 37 OECD and partner countries had experienced periods of full school closure since the start of 2020.
- The number of instructional days when schools were fully closed since the start of 2020 due to the
  pandemic (excluding school holidays, public holidays and weekends) varies significantly between
  countries and generally increases with the level of education. In Sweden, pre-primary, primary, and
  lower secondary schools did not fully close between 1 January 2020 and 20 May 2021. Meanwhile,
  upper secondary general schools closed for 79 days. In comparison, respective closures were
  55 days in pre-primary schools, 78 in primary, 92 in lower secondary and 101 days in upper
  secondary general schools on average across the OECD.
- In many countries, schools did not fully close but remained open with reduced capacity. Schools at upper secondary (general) level in Sweden, for instance, experienced 43 days of partial opening between January 2020 and May 2021, all of which took place in 2021. This was lower than the total number of days of partial opening in the OECD on average (57 days), where there were 27 days of partially open instruction in 2020, and 30 days in 2021. When adding both the number of days where schools were fully and partially closed, learning in upper secondary general education was disrupted by 122 days in Sweden between January 2020 and May 2021.
- During periods of full school closure in 2020, 21 OECD and partner countries have opted to keep upper secondary general schools virtually open as a national level strategy, including Sweden. However, in 4 countries, excluding Sweden, each day of remote learning was not considered equivalent to a full day of in-person instruction. The way that online platforms have operated during school closures has varied between countries. In Sweden, decisions on how online platforms should operate were made at the local level in upper secondary and tertiary education levels.
- The impact of COVID-19 and school closures on educational equity has been a concern for many countries. 30 out of the 36 OECD and partner countries surveyed, including Sweden, declared that additional measures were taken to support the education of children who might face additional barriers to learning during the pandemic. 22 of these countries, although not Sweden, stated that they had subsidised devices for students to help them access education. Measures to encourage disadvantaged or vulnerable students to return to school after closures were also implemented in 29 OECD and partner countries, although not in Sweden where schools remained open for all primary and lower secondary students, and upper secondary students attending introduction programmes.
- Countries have faced difficult decisions on how to best manage their resources to ensure that students can continue to access quality education in the safest possible conditions and to minimise disruption to learning. Before the pandemic, total public expenditure on primary, secondary and post-secondary non-tertiary education in Sweden reached 4.2% of gross domestic product (GDP) in 2018, which was higher than the OECD average of 3.2%. About two-thirds of OECD and partner countries reported increases in the funding allocated to primary and secondary schools to help them cope with the crisis in 2020. Compared to the previous year, Sweden reported an increase in the fiscal year education budget for primary and lower secondary general education in both 2020 and 2021.
- 20 OECD and partner countries, including Sweden, stated that the allocation of additional public funds to support the educational response to the pandemic in primary and secondary schools was based on the number of students or classes. At the same time, 16 countries targeted additional funds at socio-economically disadvantaged students as a way to ensure that resources targeted those that needed them the most, though this was not the case in Sweden.

- Countries' approach to prioritise teachers in vaccination campaigns against COVID-19 has varied. In total, 19 OECD and partner countries, excluding Sweden, have prioritised at least some teachers as part of the government's plans to vaccinate the population on a national level (as of 20 May 2021).
- The impact of the pandemic on the economy has raised concerns about the prospects of young adults, especially those leaving education earlier than others. In Sweden, the unemployment rate among 25-34 year-olds with below upper secondary attainment was 23.6% in 2020, an increase of 7 percentage points from the previous year. In comparison, the average youth unemployment rate of 15.1% in 2020 across OECD countries represented an increase of 2 percentage points from 2019 (Figure 2).
- At the same time, the number of adults participating in formal and/or non-formal education and training decreased by 27% on average in the OECD between the second quarter of 2019 and the second quarter of 2020 (i.e. during the peak of the first wave of COVID-19 in many OECD countries). In Sweden, the participation of adults in formal and/or non-formal education and training in this period decreased by 24% in Sweden.
- Despite the impact of the crisis on employment, the share of NEETs among 18-24 year-olds did not greatly increase in most OECD and partner countries during the first year of the COVID-19 pandemic. On average, the share of 18-24 year-old NEETs in OECD countries rose from 14.4% in 2019 to 16.1% in 2020. In Sweden, the share of 18-24 year-old NEETs was 11.7% in 2019, which increased to 13.7% in 2020.

## Figure 2. Trends in unemployment rates of 25-34 year-olds with below upper secondary attainment (2019 and 2020)



In per cent

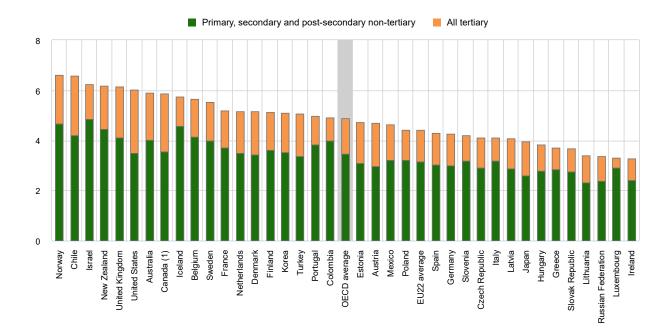
Compare your country: <u>https://www.compareyourcountry.org/education-at-a-glance-2021/en/2/3044+3045+3046/trend//OAVG</u> Countries are ranked in ascending order of the unemployment rate of 25-34 year-olds with below upper secondary attainment in 2020. Source: OECD (2021), Table A3.3. See Source section for more information and Annex 3 for notes (<u>https://www.oecd.org/education/education-</u> at-a-glance/EAG2021\_Annex3\_ChapterA.pdf).

### Investing in education

- Annual expenditure per student on educational institutions provides an indication of the investment countries make on each student. After accounting for public-to-private transfers, public expenditure on primary to tertiary educational institutions per full-time student in Sweden was USD 14 576 in 2018 (in equivalent USD converted using PPPs for GDP) compared to USD 10 000 on average across OECD countries.
- The provision of education across public and private institutions influences the allocation of resources between levels of education and types of institution. In 2018, Sweden spent USD 13 144 per student at primary, secondary and post-secondary non-tertiary education, USD 2 690 higher than the OECD average of USD 10 454. At tertiary level, Sweden invested USD 26 147 per student, USD 9 082 more than the OECD average. Expenditure per student on public educational institutions is higher than on private institutions on average across OECD countries. This is also the case in Sweden, where total expenditure on primary to tertiary public institutions amounts to USD 15 664 per student, compared to USD 13 294 on private institutions.
- Between 2012 and 2018, expenditure per student from primary to tertiary education increased at an average annual growth rate of 1.6% across OECD countries. In Sweden, expenditure on educational institutions grew at an average annual rate of 3.2%, while the number of students grew on average by 2.1% per year over this period. This resulted in an average annual growth rate of 1.1% in expenditure per student over this period.
- The share of national wealth devoted to educational institutions is higher in Sweden than on average among OECD countries. In 2018, Sweden spent 5.5% of its GDP on primary to tertiary educational institutions, which is 0.7 percentage points higher than the OECD average. Across levels of education, Sweden devoted a higher share of GDP than the OECD average at both nontertiary and tertiary levels (Figure 3).
- The share of capital costs on total expenditure on educational institutions is lower than the OECD average at primary to tertiary level in Sweden. At primary, secondary and post-secondary non-tertiary level, capital costs account for 5% of total spending on educational institutions, 4 percentage points below the OECD average (8%). At the tertiary level, capital costs represent 4%, lower than the average across OECD countries of 11%.
- Compensation of teachers and other staff employed in educational institutions represents the largest share of current expenditure from primary to tertiary education. In 2018, Sweden allocated 67% of its current expenditure to staff compensation, compared to 74% on average across OECD countries. Staff compensation tends to make up a smaller share of current expenditure on tertiary institutions due to the higher costs of facilities and equipment at this level. In Sweden, staff compensation represents 65% of current expenditure on tertiary institutions compared to 68% at non-tertiary levels. On average across OECD countries, the share is 68% at tertiary level and 77% at non-tertiary level.

In per cent

### Figure 3. Total expenditure on educational institutions as a percentage of GDP (2018)



Compare your country: <u>https://www.compareyourcountry.org/education-at-a-glance-2021/en/5/3059+3060+3061+3062+3063+3064/default</u> 1. Primary, secondary and post-secondary non-tertiary education includes pre-primary programmes. *Countries are ranked in descending order of total expenditure on educational institutions as a percentage of GDP.* **Source**: OECD (2021), Table C2.1. See *Source* section for more information and Annex 3 for notes (<u>https://www.oecd.org/education/education-at-a-glance/EAG2021 Annex3 ChapterC.pdf</u>).

### Working conditions of school teachers

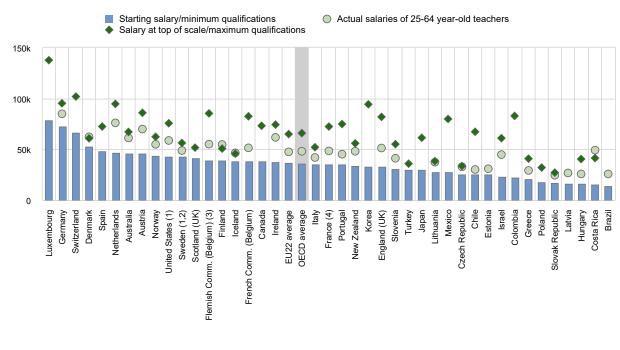
- The salaries of school staff, and in particular teachers and school heads, represent the largest single expenditure in formal education. Their salary levels also have an impact on the attractiveness of the teaching profession. In most OECD countries and economies, statutory salaries of teachers (and school heads) in public educational institutions increase with the level of education they teach, and also with experience. On average, statutory salaries of teachers with maximum qualifications at the top of their salary scales (maximum salaries) were between 86% and 91% higher than those of teachers with the minimum qualifications at the start of their career (minimum salaries) at pre-primary (ISCED 02), primary and general lower and upper secondary levels in 2020. In Sweden, maximum salaries were 17% to 33% higher than minimum salaries at each level of education (Figure 4). However, most teachers were paid between these minimum and maximum salaries.
- Teachers' actual salaries reflect their statutory salaries and additional work-related payments. Average actual salaries also depend on the characteristics of the teaching population such as their age, level of experience and qualification level. In Sweden, teachers' average actual salaries (after conversion to USD using PPPs for private consumption) amount to USD 41 292 at the pre-primary level (ISCED 02), USD 46 830 at the primary level, USD 48 719 at the general lower secondary level and USD 49 629 at the general upper secondary level. On average across OECD countries,

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teachers' average actual salaries were USD 40 707, USD 45 687, USD 47 988 and USD 51 749 at the pre-primary, primary, lower secondary and upper secondary level respectively (Figure 4).

- Teachers' average actual salaries remained lower than those of tertiary-educated workers in almost all countries, and at almost all levels of education. Teachers' average actual salaries at pre-primary (ISCED 02), primary and general secondary levels of education were between 81% and 96% of the earnings of tertiary-educated workers on average across OECD countries and economies. In Sweden, the proportion ranged from 71% to 85% at pre-primary, primary and general secondary levels of education.
- However, there are significant differences between men and women in relative salaries of teachers due to the gender gap in earnings across the labour market (statutory salaries are equal for male and female teachers in public educational institutions). When average actual salaries of teachers are compared to salaries of tertiary educated workers, these relative salaries are usually higher for women, and lower for men. In Sweden, the proportion ranges from 89% to 94% for women (98% to 110% on average across OECD countries and economies), and from 71% to 76% for men (76% to 85% on average across OECD countries and economies) in primary and general secondary education.
- In primary and secondary education, about 35% of teachers are at least 50 years old on average across OECD countries and may reach retirement age in the next decade, while the size of the school-age population is projected to increase in some countries, putting many governments under pressure to recruit and train new teachers. In 2019, 36% of primary teachers in Sweden were at least 50 years old, which was higher than the OECD average of 33%. On average across OECD countries, the proportion of teachers aged at least 50 years old increases with higher levels of education taught, to 36% in lower secondary education and 40% in upper secondary education. In Sweden, this proportion varies from 37% at lower secondary level to 45% at upper secondary level.

### Figure 4. Lower secondary teachers' average actual salaries compared to the statutory starting and top of the scale salaries (2020)



Annual statutory salaries of teachers in public institutions, in equivalent USD converted using PPPs

Compare your country: https://www.compareyourcountry.org/education-at-a-glance-2021/en/7/all/default

Note: Actual salaries include bonuses and allowances.

1. Actual base salaries.

2. Salaries at the top of the scale and the minimum qualifications, instead of the maximum qualifications.

3. Salaries at the top of the scale and the most prevalent qualifications, instead of the maximum qualifications.

4. Includes the average of fixed bonuses for overtime hours.

Countries and economies are ranked in descending order of starting salaries for lower secondary teachers with the minimum qualifications. **Source**: OECD (2021), Table D3.3 and Education at a Glance Database, <u>http://stats.oecd.org</u>. See Source section for more information and Annex 3 for notes (<u>https://www.oecd.org/education/education-at-a-glance/EAG2021\_Annex3\_ChapterD.pdf</u>).

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### More information

For more information on Education at a Glance 2021 and to access the full set of Indicators, see: <a href="https://doi.org/10.1787/b35a14e5-en">https://doi.org/10.1787/b35a14e5-en</a>

For more information on the methodology used during the data collection for each indicator, the references to the sources and the specific notes for each country, see Annex 3 (https://www.oecd.org/education/education-at-a-glance/EAG2021 Annex3.pdf).

For general information on the methodology, please refer to the OECD Handbook for Internationally Comparative Education Statistics: Concepts, Standards, Definitions and Classifications (<u>https://doi.org/10.1787/9789264304444-en</u>).

Updated data can be found on line at <u>http://dx.doi.org/10.1787/eag-data-en</u> and by following the *StatLinks*  $\exists z = z = 1$  under the tables and charts in the publication.

Data on subnational regions for selected indicators are available in the OECD Regional Statistics (database) (OECD, 2021). When interpreting the results on subnational entities, readers should take into account that the population size of subnational entities can vary widely within countries. For example, regional variation in enrolment may be influenced by students attending school in a different region from their area of residence, particularly at higher levels of education. Also, regional disparities tend to be higher when more subnational entities are used in the analysis.

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https://gpseducation.oecd.org/

The data on educational responses during COVID-19 were collected and processed by the OECD based on the Survey on Joint National Responses to COVID-19 School Closures, a collaborative effort conducted by the United Nations Educational, Scientific and Cultural Organization (UNESCO); the UNESCO Institute for Statistics (UIS); the United Nations Children's Fund (UNICEF); the World Bank; and the OECD.

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