Netherlands

Highlights

- In 2019, the Netherlands spent 5.1% of gross domestic product (GDP) on primary to tertiary educational institutions compared to an OECD average of 4.9
- The average expenditure per tertiary student in the Netherlands is USD 20 889 per year, which is about USD 10 700 higher than that of the primary level and about USD 6 000 higher than that of the secondary level. It is among the highest across OECD countries.
- Despite large rises in the number of young people completing higher education, it continues to be
 associated with better employment prospects. In 2021 the employment rate among 25-34 yearolds with tertiary education in the Netherlands was 6 percentage points higher than among those
 with upper secondary or post-secondary non-tertiary attainment. Those with a tertiary education
 also earn more and were less likely to become unemployed as a result of the Covid-19 pandemic.
- Tertiary completion rates in the Netherlands are similar to other OECD countries, 71% of bachelor's students have graduated within three years after the end of the theoretical programme duration, compared to 68% on average across the OECD.
- In all OECD countries, tertiary completion rates are higher for women than for men. In the Netherlands, 78% of women graduated within three years after the end of the theoretical programme duration at bachelor's level, compared to 64% of men.
- The Netherlands is popular destination for international students. They make up 13% of all tertiary enrolments in the Netherlands, compared to 7% on average across OECD countries.

The output of educational institutions and the impact of learning

- Educational attainment has been increasing throughout the OECD, in particular at tertiary level. Between 2000 and 2021, the share of 25-34 year-olds with tertiary attainment increased on average by 21 percentage points. In the Netherlands, the share increased at an even faster pace, by 29 percentage points (from 27% in 2000 to 56% in 2021) (Figure 1). The Netherlands is one of the 14 OECD countries where at least half of 25-34 year-olds have a tertiary education.
- Upper secondary attainment is often seen as a minimum qualification for successful labour market participation. Although the general increase in educational attainment has seen a parallel decline in the share of 25-34 year-olds without upper secondary attainment, 14% of young adults across the OECD still left school without an upper secondary qualification. In the Netherlands, the share is 10%, which is lower than the OECD average.
- Higher educational attainment is often associated with better employment prospects and the Netherlands is no exception. In 2021 the employment rate among 25-34 year-olds with tertiary education in the Netherlands was 20 percentage points higher than among those with below upper secondary attainment and 6 percentage points higher than among those with upper secondary or post-secondary non-tertiary attainment. On average across OECD countries, the employment rate

among 25-34 year-olds with a tertiary qualification was 26 percentage points higher than among those with below upper secondary attainment and 8 percentage points higher than among those with upper secondary or post-secondary non-tertiary attainment. While the positive link between educational attainment and employment rates holds for both men and for women across the OECD, it is particularly strong for women. In the Netherlands, 62% of women with below upper secondary attainment were employed in 2021, compared to 89% of those with tertiary attainment. In contrast, the figures were 77% and 93% for men.

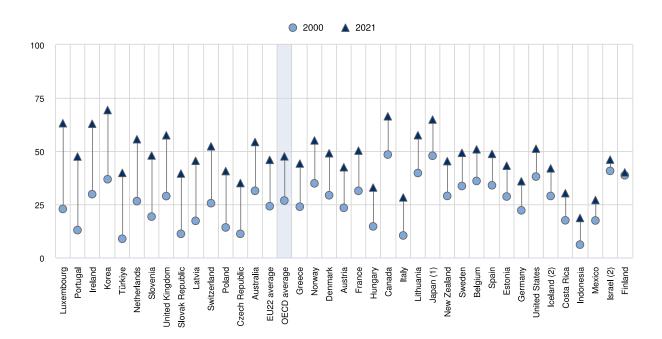


Figure 1. Trends in the share of tertiary-educated 25-34 year-olds (2000 and 2021)

1. Data for tertiary education include upper secondary or post-secondary non-tertiary programmes (less than 5% of adults are in this group). 2. Year of reference differs from 2000: 2002 for Israel and 2003 for Iceland.

Countries are ranked in descending order of the difference in the share of tertiary-educated 25-34 year-olds between 2000 and 2021. **Source**: OECD (2022), 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/EAG2022_X3-A.pdf</u>).

- Across the OECD, the labour market benefits of tertiary attainment have proved especially strong during economic crises. This was also the case during the COVID-19 pandemic in the Netherlands. Between 2019 and 2020, unemployment for 25-34 year-old workers with below upper secondary attainment increased by 1.5 percentage points, by 0.6 percentage points for workers with upper secondary attainment and by 0.3 percentage points for workers with tertiary attainment. In 2021, unemployment for workers with below upper secondary attainment for workers with below upper secondary attainment for 0.2020 by 0.2 percentage points for workers with upper secondary attainment and increased by 0.7 percentage points for workers with tertiary attainment.
- Educational attainment affects not just employment prospects, but also wage levels. On average
 across the OECD, 25-64 year-old workers with upper secondary or post-secondary non-tertiary
 attainment earn 29% more than workers with below upper secondary attainment, while those with
 tertiary attainment earn about twice as much. In the Netherlands, the earnings advantage of

In per cent

tertiary-educated workers was smaller than the OECD average. In 2020, workers with upper secondary or post-secondary non-tertiary attainment earned 21% more than those with below upper secondary attainment and those with tertiary attainment earned 87% more.

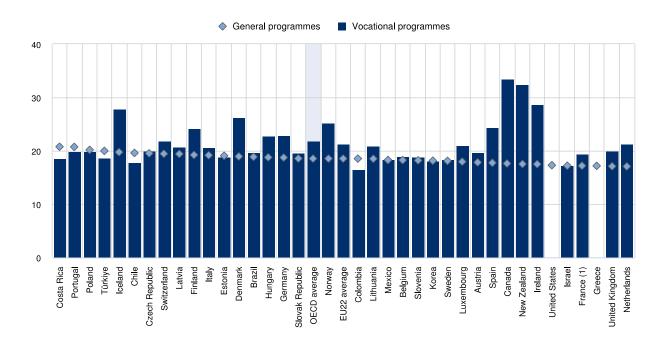
Access to education, participation and progress

- Compulsory education begins at the age of 5 and ends at the age of 18 in the Netherlands. The
 range of ages for which at least 90% of the population are enrolled is identical to the period of
 compulsory education and goes from the age of 4 to the age of 17. This differs from most other
 OECD countries, where more than 90% of the population are enrolled for longer than the period of
 compulsory education.
- The average age of graduation from general upper secondary programmes varies from 17 to 21 years across OECD countries and is 17 years in the Netherlands. Differences in the average age of graduation from vocational upper secondary education are much larger and vary from 16 to 34 years across the OECD. These differences largely depend on whether vocational upper secondary students usually enrol in these programmes towards the end of their compulsory education or in mid-career. In the Netherlands, the average age of graduation from vocational upper secondary education is 21 years, which is slightly below the OECD average at 22 years (Figure 2).
- In almost all OECD countries, women make up the majority of those graduating from general upper secondary education. In the Netherlands, the share is 54% (OECD average 55%). In contrast, men are overrepresented among graduates of vocational upper secondary programmes in most OECD countries, but not in the Netherlands where they make up 49% of all vocational upper secondary graduates, below the OECD average (55%).
- In the Netherlands, 68% of 18-24 year-olds are still in full- or part-time education or training at either upper secondary or tertiary level (significantly above the OECD average of 54%). A subset of these students (47% of 18-24 year-olds) combine their education or training with some form of employment in the Netherlands, compared to 17% on average across the OECD.
- One significant difference across countries' education systems is on whether or not vocational upper secondary programmes provide access to tertiary education. In 12 OECD countries and other participants, all vocational upper secondary graduates have direct access to tertiary education. In the Netherlands only 49% of graduates from vocational upper secondary programme have direct access to tertiary education.
- As is the case in all OECD countries, a majority of students enrolled at tertiary level in the Netherlands are bachelor's students (74%). However, the next commonest enrolment level varies from country to country. In the Netherlands, master's students make up the second largest group of tertiary students at 21%. This is also the case in 25 other OECD countries, while in the remaining 14 countries with available data, short-cycle tertiary students form the second largest group.
- At 28%, business, administration and law was the most popular field of study among new entrants into tertiary education in the Netherlands, which is the case in most OECD countries. Despite the growing need for digital skills and the good employment prospects of students with degrees in information and communication technologies (ICT), only a small fraction of entrants into tertiary education choose this field. In the Netherlands, 93% of 25-64 year-olds with a tertiary ICT qualification are employed, but ICT students make up only 5% of new entrants into tertiary education. This is below the OECD average of 6%.
- The Netherlands is popular destination for international students. They make up 13% of all tertiary
 enrolments in the Netherlands, compared to 7% on average across OECD countries. A quarter of
 these students come from neighbouring countries. In OECD countries, the share of international

students tends to rise with the level of education studied, this is the case in the Netherlands where 11% of those enrolled in Bachelor's programmes are international students, compared to 19% of Master's enrolments and 48% of Doctoral enrolments.

Figure 2. Average age of first-time upper secondary graduates, by programme orientation (2020)





1. Average age is based on all graduates instead of first-time graduates.

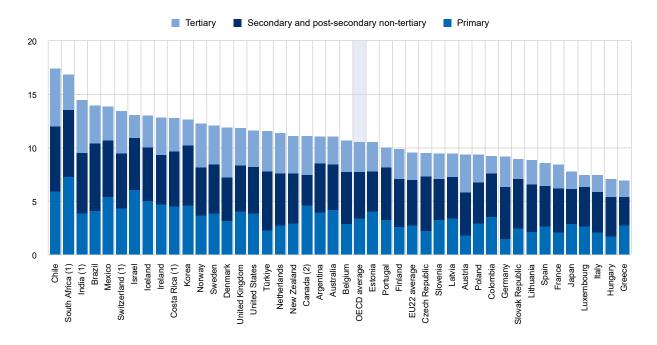
Countries are ranked in descending order of the average age of first-time upper secondary graduates in general programmes. **Source**: OECD//Eurostat/UIS (2022), Tables B3.1 and B3.2. See Source section for more information and Annex 3 for notes (https://www.oecd.org/education/education-at-a-glance/EAG2022 X3-B.pdf).

Financial resources invested in education

- All OECD countries devote a substantial share of national output to educational institutions. In 2019, OECD countries spent on average 4.9% of their gross domestic product (GDP) on primary to tertiary educational institutions. In the Netherlands, the corresponding share was 5.1%. Between 2008 and 2019, funding for educational institutions from all sources grew by 17% in the Netherlands. Over the same period of time, the increase in GDP was lower with 11%. As a consequence, expenditure on educational institutions as a share of GDP grew by 0.3 percentage points over the same time period.
- Public spending on primary to tertiary education was 11.4% of total government expenditure in the Netherlands (Figure 3), higher than the OECD average (10.6%). Also, relative to GDP, public spending on primary to tertiary education (4.8%) is higher than the OECD average (4.4%).

Figure 3. Composition of total public expenditure on education as a percentage of total government expenditure (2019)

Primary to tertiary education (including R&D), in per cent



1. Year of reference differs from 2019. Refer to the source table for more details.

2. Primary education includes pre-primary programmes.

Countries are ranked in descending order of total public expenditure on education as a percentage of total government expenditure.

Source: OECD/UIS/Eurostat (2022), Table C4.1. See Source section for more information and Annex 3 for notes (https://www.oecd.org/education/education-at-a-glance/EAG2022 X3-C.pdf).

- Spending on educational institutions as share of GDP or public budgets are important measures of the importance that countries place on education in their budgeting decisions. However, they do not show the total amount of funding per student because GDP levels, public budgets and student numbers vary from country to country. Across primary to tertiary education, OECD countries spend an average of USD 11 990 per student (in equivalent USD converted using PPPs for GDP) on educational institutions each year. In comparison, the Netherlands spent USD 14 720 per student in 2019. Its cumulative expenditure on educating a student from the age of 6 to 15 was USD 119 584, which was above the OECD average of USD 105 502.
- Across OECD countries, the provision of education at primary and secondary levels in terms of curricula, teaching styles and organisational management leads, on average, to similar patterns of expenditure per student from primary to post-secondary non-tertiary levels. OECD countries as a whole spend on average around USD 9 923 per student at primary and USD 11 400 per student at secondary level. In the Netherlands, the values are USD 10 150 at primary and USD 14 902 per student at secondary level, which are among the highest across OECD countries.
- In contrast to lower levels of education, spending on tertiary education varies widely across OECD countries. Expenditure per student at tertiary level in the Netherlands is higher than at other levels of education, as is the case in almost all other OECD countries. The average expenditure per tertiary student in the Netherlands is USD 20 889 per year, which is about USD 10 700 higher than that of the primary level and about USD 6 000 higher than that of the secondary level. It is

among the highest across OECD countries. The OECD average expenditure at tertiary level (USD 17 559) is driven up by high values in a few countries such as Luxembourg (USD 51 978), the United Kingdom (USD 29 688) and the United States (USD 35 347). At 36%, the share of research and development (R&D) expenditure makes up a larger fraction of expenditure on tertiary education in the Netherlands than on average across OECD countries (29%).

Public funding dominates non-tertiary education (primary, secondary and post-secondary non-tertiary) in all OECD countries, even after transfers to the private sector. On average across the OECD, private funding accounts for 10% of expenditure at primary, secondary and post-secondary non-tertiary levels, while this share was 14% in the Netherlands in 2019. In contrast, private expenditure at tertiary level was higher in all OECD countries. In the Netherlands, the share of private expenditure at tertiary level reached 28%, which was slightly below the OECD average of 31%.

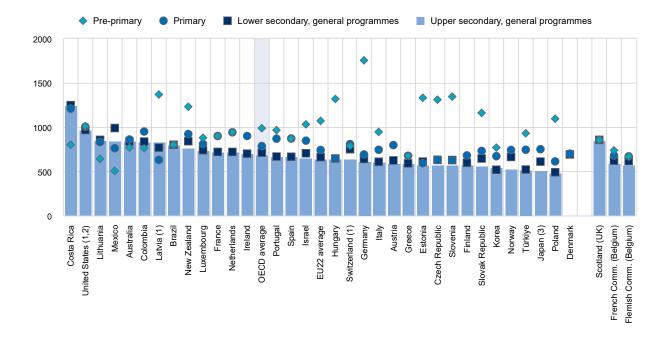
Teachers, the learning environment and the organisation of schools

- The salaries of teachers and school heads are an important determinant of the attractiveness of the teaching profession, but they also represent the single largest expenditure item in formal education. In most OECD countries, the statutory salaries of teachers (and school heads) in public educational institutions increase with the level of education they teach, and also with experience. Actual salaries also increase with the level of education. On average across OECD countries, actual salaries range from USD 41 941 at the pre-primary level to USD 53 682 at the upper secondary level. In the Netherlands, actual salaries average USD 65 219 at pre-primary level and USD 79 182 at upper secondary level.
- Between 2015 and 2021, on average across OECD countries, the statutory salaries of teachers at lower secondary level (general programmes) with 15 years of experience and the most prevalent qualifications increased by 6% in real terms. In the Netherlands, salaries increased less than the OECD average, by 5%.
- Teachers' average actual salaries remain lower than earnings of tertiary-educated workers in almost all OECD countries, and at almost all levels of education. This is also the case in the Netherlands. Lower secondary (general programme) teachers in the Netherlands earn 12.8% less than other tertiary-educated workers. In contrast school head actual salaries in the Netherlands are only slightly higher than the earnings of other tertiary educated workers. This is different from most OECD countries, where school heads tend to earn well above the average earnings of tertiary educated workers.
- The average number of teaching hours per year required from a typical teacher in public educational institutions in OECD countries tends to decrease as the level of education increases. This is also the case in the Netherlands.
- Based on official regulations or agreements, annual teaching hours in the Netherlands are 940 hours per year at pre-primary level, 940 hours at primary level, 720 hours at lower secondary level (general programmes) and 720 hours at upper secondary level (general programmes) (Figure 4).
- During their working hours, teachers also perform various non-teaching tasks such as lesson planning and preparation, marking students' work and communicating or co-operating with parents or guardians. At the upper secondary level, 57% of teachers' working time is formally dedicated to non-teaching activities in the Netherlands, compared to an average of 56% across OECD countries.
- The duration of initial teacher education for primary and lower secondary teachers ranges from 2.5 years to 6.5 years across OECD countries. In the Netherlands, initial teacher education

typically lasts 4 years for prospective lower secondary teachers (general programmes). It is the same length for prospective primary teachers. As is the case in almost all OECD countries, a tertiary degree is awarded to prospective teachers of all levels of education upon completion of their initial teacher training.

 Continuing professional development is compulsory for all teachers of general programmes in most countries with data, but the Netherlands is an exception. At secondary level, professional development activities are not compulsory.

Figure 4. Teaching time of teachers, by level of education (2021)



Net statutory teaching time in hours per year, in public institutions

1. Actual teaching time (in Latvia except for pre-primary level).

2. Reference year differs from 2021. Refer to the source table for details.

3. Average planned teaching time in each school at the beginning of the school year.

Countries and other participants are ranked in descending order of the number of teaching hours per year in general upper secondary education. **Source**: OECD (2022), Table D4.1. See Source section for more information and Annex 3 for notes (<u>https://www.oecd.org/education/education-at-a-glance/EAG2022_X3-D.pdf</u>).

Focus on tertiary education

- Among 25-64 year-olds in the Netherlands, bachelor's degrees are the most common tertiary attainment at 24% of the population followed by master's degrees with 16% and short-cycle tertiary qualifications with 2%. This is similar to the OECD average, where bachelor's degrees are most common (19%), followed by master's degrees (14%) and short cycle tertiary qualifications (7%). As in all OECD countries and other participants, only a small fraction of the population holds a doctoral degree: the share is 1% in the Netherlands.
- On average, tertiary attainment generates a wide range of labour-market benefits, including high employment rates. Yet, there are significant differences depending on the field of study. In 2021, employment rates in the Netherlands were highest among tertiary-educated individuals who

studied medical and dental fields or information and communication technologies with 93% and lowest among those who studied natural sciences, mathematics and statistics or education at 86%. However, these differences need to be put into perspective. Even among 25-64 year-olds with tertiary attainment in the field with the lowest employment rate, this was 2.6 percentage points higher than among those with upper secondary attainment (all fields combined).

- Despite the labour market advantages of a tertiary degree, many tertiary students do not graduate on time or do not graduate at all. In the Netherlands, 29% of bachelor's students graduate within the theoretical programme duration. Across the OECD, the completion rate within the theoretical programme duration ranges from 12% to 69%. Completion rates three years after the theoretical programme duration are significantly higher in most countries and the differences between OECD countries somewhat narrower. In the Netherlands, 71% of bachelor's students have graduated within three years after the end of the theoretical programme duration, compared to 68% on average across the OECD.
- In all OECD countries, tertiary completion rates are higher for women than for men. In the Netherlands, 78% of women graduated within three years after the end of the theoretical programme duration at bachelor's level, compared to 64% of men.
- In most OECD countries including in the Netherlands, tertiary-educated adults have higher rates
 of participation in non-formal education and training than those with a lower level of educational
 attainment. In 2021, 24% of 25-64 year-olds with tertiary attainment in the Netherlands had
 participated in non-formal education and training in the four weeks prior to being surveyed,
 compared to 9% of their peers with below upper secondary attainment.
- Entering tertiary education often means costs for students and their families, in terms of tuition fees, foregone earnings and living expenses, although they may also receive financial support to help them afford it. However, public policies on tuition fees and financial support for students differ greatly across countries. The Netherlands has comparatively low levels of tuition fees, public institutions charge tuition fees of USD 2 622 for national students at bachelor's level.
- Over the decades, independent private institutions have been established to meet increased demand for tertiary education. On average across the OECD, 17% of students are enrolled in independent private institutions, but this figure masks large differences between countries. In the Netherlands, 16% of tertiary students are enrolled in such institutions. Independent private institutions charge higher annual tuition fees on average than public institutions for master's programmes in all OECD countries and other participants with available data, except in Chile and Lithuania.
- Giving students the possibility to study part-time is an important instrument to facilitate access to tertiary education. Many part-time students are students that would not be able to study full-time, for example because they have child-care obligations or have to work to fund their studies. With 19%, the share of part-time students at the tertiary level in the Netherlands is slightly below the OECD average (22%).
- Staff at tertiary level tend to start their careers relatively late due to the length of the education they need to qualify. In the Netherlands, 17% of academic staff are aged under 30, above the OECD average (8%). In contrast, the share of academic staff aged 50 or over is 33%, which is below the OECD average by 7 percentage points.

COVID-19: The second year of the pandemic

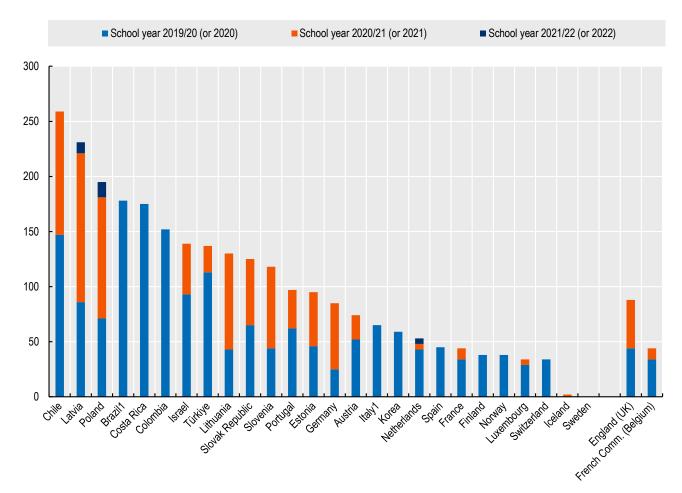
• The COVID-19 pandemic disrupted traditional schooling in 2020 and the first half of 2021, leading to school closures across all OECD countries. While most shut down their premises entirely in the wake of the pandemic in 2020, by 2021 the situation had improved and returned to normal in most

countries in 2022. In the Netherlands, primary and secondary schools except for upper secondary vocational programmes were entirely closed for up to 43 days during the school year 2019/20, for up to 5 days in 2020/21 and 5 days in 2021/22 (Figure 5). Partial closures reached 36-60 days during the school year 2019/20 and 25-84 days in 2020/21.

- National examinations have also been affected by the pandemic. At general upper secondary level, 18 OECD countries postponed their national examinations during the school year 2019/20, while 10 countries even cancelled them entirely. In 2020/21, national examinations were postponed in 9 countries and cancelled in 6 countries. The Netherlands cancelled its national examinations in 2019/20 and rescheduled them in 2020/21.
- Most countries conducted assessments of the impact of school closures on learning outcomes at various levels of education and along several dimensions. The Netherlands has conducted studies to evaluate the effects of the pandemic and its impact on primary, lower secondary, upper secondary general and vocational education. The assessments covered mathematics, reading and science. Like many other countries, the Netherlands also evaluated dimensions such as the effectiveness of distance-learning strategies during school closures, non-cognitive skills as well as the mental health and well-being of students and teachers.
- The challenges related to the COVID-19 pandemic have created additional costs for education systems. Preliminary budget estimates for 2021 suggest that, compared to 2020, the education budget at pre-primary to tertiary level in the Netherlands increased strongly (by more than 5%, in nominal terms).
- The COVID-19 pandemic had a significant impact on adult learning in most OECD countries. In 2020, the share of adults who participated in a formal or non-formal education and training activity in the four weeks prior to being surveyed decreased by 2 percentage points on average across OECD countries compared with 2019. However, in 2021, participation in non-formal education and training returned to pre-pandemic levels in most countries. In the Netherlands, a similar pattern emerged. From 2019 to 2020, the share of adults participating in a formal or non-formal education and training activity fell by 1 percentage point. From 2020 to 2021, it increased by 8 percentage points and has thus increased above pre-pandemic levels.
- Young adults who are not in employment, education or training (NEET) for prolonged periods are at risk of adverse economic and social outcomes in both the short and the long term. After increasing during the COVID-19 pandemic in 2020, the share of 18-24 year-olds who are NEET in the Netherlands declined in 2021. The share of NEET among young adults was 5% in 2021, below pre-COVID levels.

Figure 5. School closures due to COVID-19 (2020, 2021 and the first quarter of 2022)

Number of instruction days of full closure of lower secondary schools excluding school holidays, public holidays and weekends



Note: The data underlying this report were produced through the Survey on Joint National Responses to COVID 19, a collaborative effort conducted by the United Nations Educational, Scientific and Cultural Organization (UNESCO), the United Nations Children's Fund (UNICEF), the World Bank (WB), and the Organisation for Economic Co-operation and Development (OECD). Data for other levels of education are available at https://www.oecd.org/education/Results-4th-wave-COVID-Survey-OECD-database.xlsx.

1. Data for 2021 and 2022 are missing.

Countries and other participants are ranked in descending order of the total number of days lower secondary schools were fully closed during the school years 2019/20 (2020), 2020/21 (2021) and 2021/22 (2022).

Source: OECD/UIS/UNESCO/UNICEF/WB (2022).

References

OECD (2022), *Education at a Glance 2022: OECD Indicators*, OECD Publishing, Paris, <u>https://doi.org/10.1787/3197152b-en</u>

OECD (2022), "Regional education", OECD Regional Statistics (database), https://dx.doi.org/10.1787/213e806c-en.

More information

For more information on Education at a Glance 2022 and to access the full set of Indicators, see: https://doi.org/10.1787/3197152b-en

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/EAG2022 X3.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* and *statLinks* under the tables and charts in the publication.

Data on subnational regions for selected indicators are available in the OECD Regional Statistics (database) (OECD, 2022). 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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The data on educational responses during COVID-19 were collected and processed by the OECD based on the Joint Survey on 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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