



**KULTUSMINISTER
KONFERENZ**

Compact data on education


The most important statistics on
the educational system in Germany



Preface

Dear readers

following the empirical turn in educational policy, surveys and statistical data on education have played an important role, and their significance in the debate on educational policy continues to grow. One of the tasks of the Secretariat of the Standing Conference is to respond to queries for statistical data on education and to provide statistical data to experts from the fields of research and educational policy, the press media and interested members of the public. This leaflet contains an overview of important facts and figures about schools, institutions of higher education, expenditure for education, science and research, forecasts in the fields of school and higher education as well as individual statistical data for the Länder.


Udo Michallik
Secretary General of the
Standing Conference of the Ministers
of Education and Cultural Affairs



Education in Germany at a glance



The responsibility for the educational system in Germany results from the distribution of competence in Article 30 of the Constitution. According to this, the main responsibility for the school sector, the higher education sector, adult education, continuing education and culture falls under so-called cultural sovereignty of the Länder.

Further information can be found at:

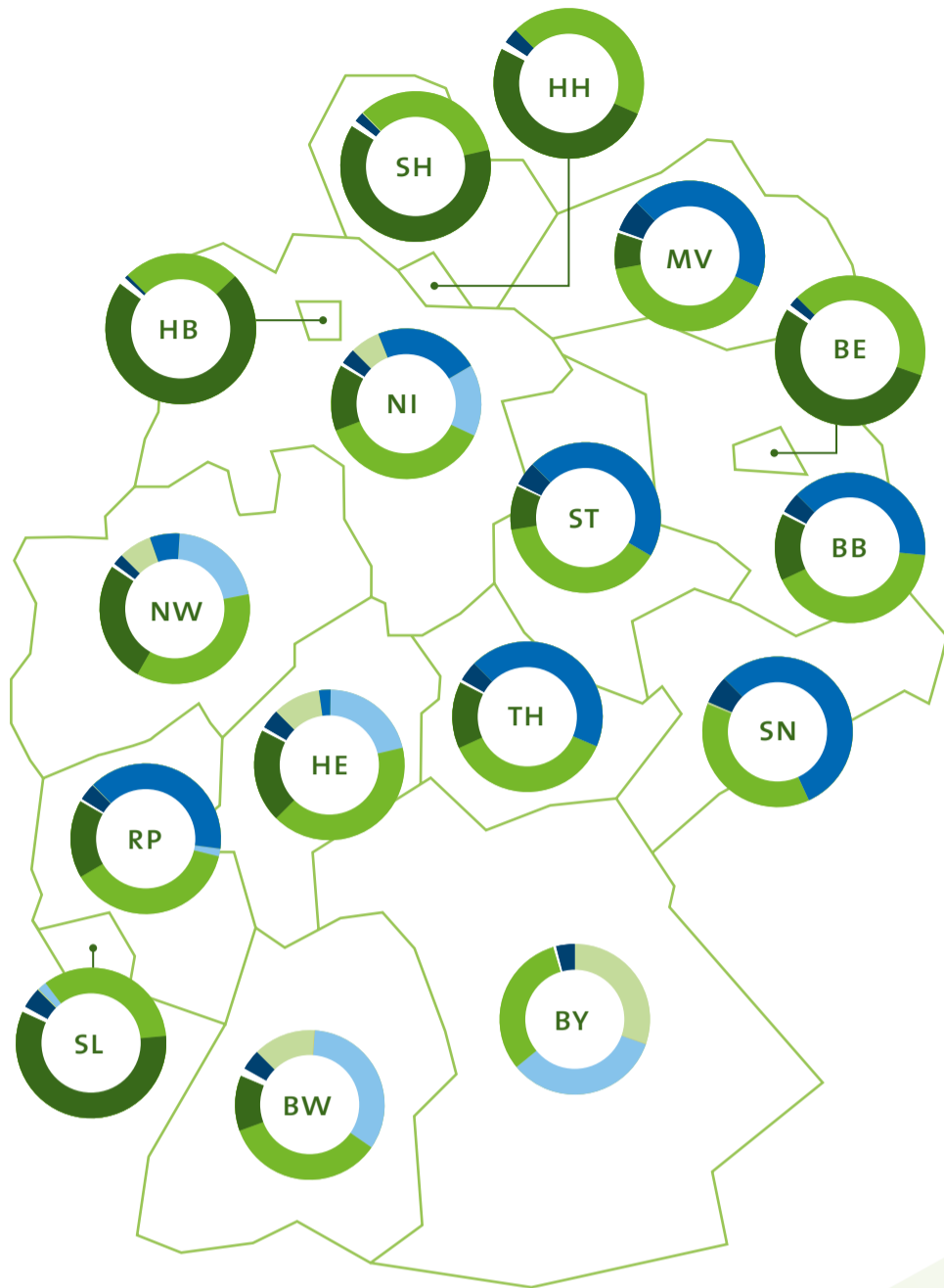
www.kmk.org/dokumentation-statistik/statistik.html

www.kmk.org/dokumentation-statistik/informationen-zum-deutschen-bildungssystem.html

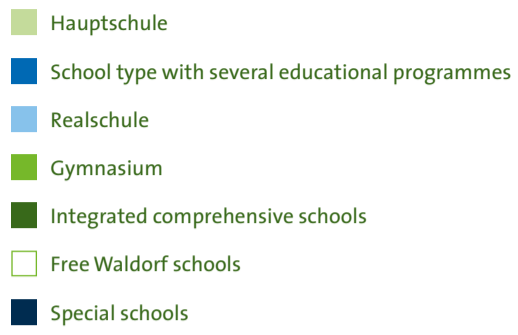
www.bildungsberichte.de

<https://www.kmk.org/kmk/information-in-english.html>

Distribution of pupils according to school types in grade 8 in 2017

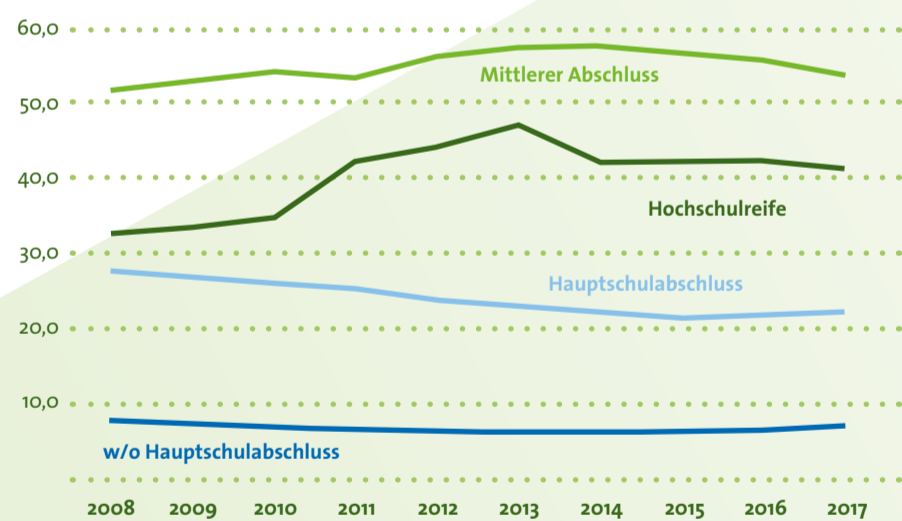


Education in Germany at a glance



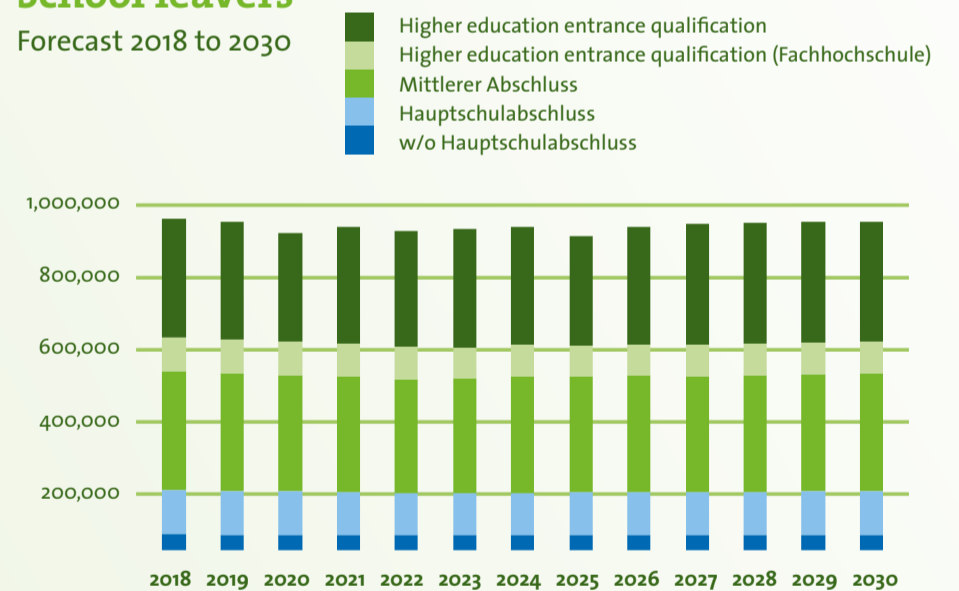
Higher education entrance qualification (University)

Share of the population of the same age group in %



School leavers

Forecast 2018 to 2030



New students

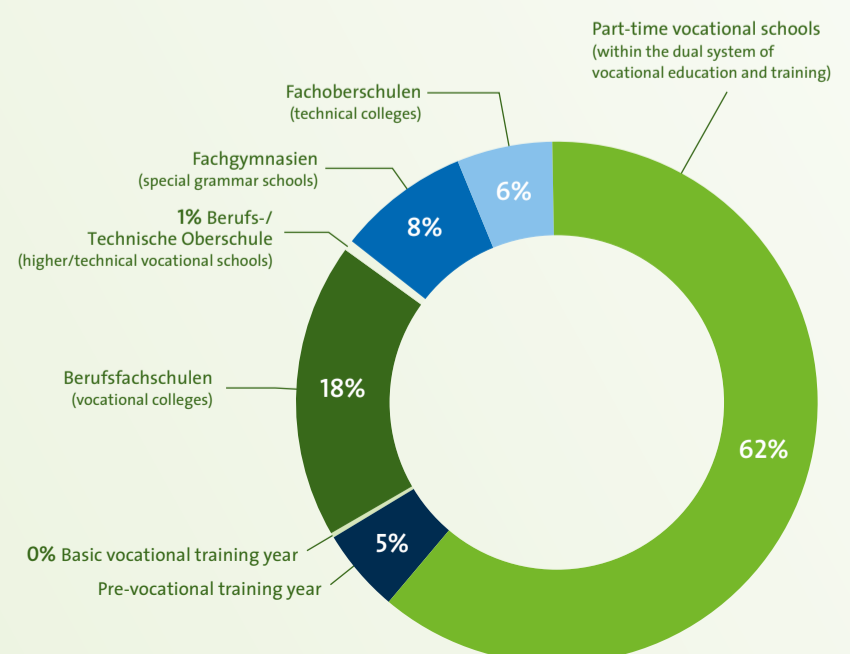
2008 until 2017

Source: German Federal Statistical Office



Pupils at vocational schools

according to school types in 2017



Schools in Germany

| | 2000 | 2010 | 2015 | 2017 |
|--|--------|--------|--------|--------|
| Total no. of schools¹⁰ | 51,638 | 43,705 | 42,500 | 41,765 |
| PUBLIC | 47,565 | 38,277 | 36,679 | 35,926 |
| in % | 92,1% | 87,6% | 86,3% | 86,0% |
| PRIVATELY SPONSORED | 4,073 | 5,428 | 5,821 | 5,839 |
| in % | 7,9% | 12,4% | 13,7% | 14,0% |
| GENERAL EDU. | 41,865 | 34,837 | 33,687 | 32,995 |
| VOCATIONAL | 9,773 | 8,868 | 8,813 | 8,770 |

| | 2000 | 2010 | 2015 | 2017 |
|----------------------------------|------------|------------|------------|------------|
| Pupils² | 12,641,629 | 11,484,960 | 10,831,676 | 10,837,182 |
| GENERAL EDUCATION SCHOOLS | 9,961,214 | 8,796,942 | 8,335,061 | 8,346,856 |
| VOCATIONAL SCHOOLS | 2,680,415 | 2,688,018 | 2,496,615 | 2,490,326 |

| | 2000 | 2010 | 2015 | 2017 |
|----------------------------------|---------|---------|---------|---------|
| Teachers^{2,3} | 720,482 | 732,013 | 738,182 | 746,594 |
| GENERAL EDUCATION SCHOOLS | 611,196 | 614,130 | 620,760 | 627,323 |
| VOCATIONAL SCHOOLS | 109,286 | 117,883 | 117,422 | 119,272 |

| | 2000 | 2010 | 2015 | 2017 |
|----------------------------------|------|------|------|------|
| Pupils per teacher, total | 17,5 | 15,7 | 14,7 | 14,5 |
| GENERAL EDUCATION SCHOOLS | 16,3 | 14,3 | 13,4 | 13,3 |
| VOCATIONAL SCHOOLS | 24,5 | 22,8 | 21,3 | 20,9 |

| | 2000 | 2010 | 2015 | 2017 |
|--|-----------|-----------|-----------|-----------|
| School leavers² | | | | |
| FROM GENERAL EDUCATION SCHOOLS | 932,792 | 857,171 | 839,802 | 824,679 |
| W/O HAUPTSCHULABSCHLUSS | 84,998 | 53,041 | 47,439 | 52,682 |
| in % ⁴ | 9,4% | 6,5% | 5,9% | 6,5% |
| HAUPTSCHULABSCHLUSS | 233,306 | 173,848 | 135,663 | 130,303 |
| in % ⁴ | 25,7% | 21,4% | 17,0% | 16,2% |
| MITTLERER SCHULABSCHLUSS (INTERMEDIATE LEVEL QUALIFICATION) | 374,455 | 349,137 | 368,432 | 354,276 |
| in % ⁴ | 40,9% | 42,6% | 45,8% | 43,7% |
| HIGHER EDU. ENTRANCE QUALIFICATION | 240,033 | 281,145 | 288,268 | 287,418 |
| in % ⁴ | 25,6% | 30,3% | 34,8% | 33,7% |
| FROM VOCATIONAL SCHOOLS | 1,018,626 | 1,140,448 | 1,002,777 | 1,010,914 |
| HIGHER EDU. ENTRANCE QUALIFICATION | 106,481 | 177,177 | 156,557 | 153,360 |
| in % ⁴ | 11,4% | 18,7% | 18,2% | 17,2% |

| | 2000 | 2010 | 2015 | 2017 |
|--|---------|---------|---------|---------|
| Eligible to study | 346,514 | 458,322 | 444,825 | 440,778 |
| OF WHICH FEMALE in % | 53,6% | 52,8% | 52,7% | 53,1% |
| OVERALL RATIO OF PEOPLE ELIGIBLE TO STUDY⁴ | 37,2% | 49,0% | 53,0% | 50,9% |
| HIGHER EDU. ENTRANCE QUALIFICATION⁴ | 27,6% | 33,9% | 41,2% | 40,2% |
| HIGHER EDU. ENTRANCE QUALIFICATION⁴ | 9,6% | 15,2% | 11,8% | 10,7% |

| | 2000 | 2010 | 2015 | 2017 |
|-----------------------------|-----------|-----------|-----------|-----------|
| Trainees⁵ | 1,702,017 | 1,508,328 | 1,337,004 | 1,323,894 |
| OF WHICH BEGINNERS | 622,967 | 559,032 | 516,639 | 515,679 |

Institutions of higher education in Germany

| | 2000 | 2010 | 2015 | 2017 |
|--|------|------|------|------|
| Total no. of institutions⁷ | 354 | 422 | 444 | 445 |
| UNIVERSITIES | 168 | 179 | 181 | 181 |
| FACHHOCHSCHULEN | 186 | 243 | 263 | 264 |

| | 2000 | 2010 | 2015 | 2017 |
|--|---------|---------|---------|---------|
| Total no. of new students⁷ | 314,956 | 444,719 | 506,580 | 513,166 |
| OF WHICH FEMALE in % | 49,2% | 49,5% | 50,2% | 50,8% |
| AT UNIVERSITIES | 216,052 | 272,630 | 296,777 | 295,144 |
| AT FACHHOCHSCHULEN | 98,904 | 172,089 | 209,803 | 218,022 |
| NEW STUDENTS QUOTA⁸ | 33,3% | 46,0% | 58,2% | 57,0% |

| | 2000 | 2010 | 2015 | 2017 |
|--|-----------|-----------|-----------|-----------|
| Total no. of students⁷ | 1,799,338 | 2,217,604 | 2,757,799 | 2,844,978 |
| OF WHICH FEMALE in % | 46,1% | 47,8% | 48,0% | 48,5% |
| AT UNIVERSITIES | 1,341,149 | 1,503,839 | 1,791,988 | 1,818,259 |
| AT FACHHOCHSCHULEN | 458,189 | 713,765 | 965,811 | 1,026,719 |

| | 2000 | 2010 | 2015 | 2017 |
|---|--------|---------|---------|------|
| German students abroad⁹ | 57,000 | 127,600 | 139,700 | - |

| | 2000 | 2010 | 2015 | 2017 |
|--|---------|---------|---------|---------|
| Foreign students in Germany⁷ | 175,065 | 252,032 | 340,305 | 374,583 |
| FOREIGN STUDENTS⁷ | 112,883 | 184,960 | 251,542 | 282,002 |
| NON-MOBILE FOREIGN STUDENTS⁷ | 62,182 | 67,072 | 88,763 | 92,581 |

| | 2000 | 2010 | 2015 | 2017 |
|--|---------|---------|---------|---------|
| Graduates (first-time graduates)¹¹ | 176,654 | 294,881 | 317,102 | 311,441 |
| OF WHICH FEMALE in % | 45,6% | 52,0% | 51,1% | 52,6% |

| | 2000 | 2010 | 2015 | 2017 |
|---|---------|---------|---------|---------|
| Total no. of degrees^{10,11} | 214,473 | 361,697 | 481,588 | 501,734 |
| BACHELOR AND EQUIVALENT QUALIFICATIONS | 66,386 | 172,111 | 267,624 | 271,992 |
| MASTER AND EQUIVALENT QUALIFICATIONS | 122,307 | 163,957 | 184,746 | 201,338 |
| TEACHER TRAINING INCL. BACHELOR AND MASTER | 26,938 | 33,822 | 32,067 | 32,736 |
| PHD | 25,780 | 25,629 | 29,218 | 28,404 |

| | 2000 | 2010 | 2015 | 2017 |
|--|---------|---------|---------|---------|
| Higher education staff¹² | 488,660 | 601,682 | 684,385 | 702,844 |
| SCIENTIFIC/ARTISTIC | 219,296 | 324,367 | 385,311 | 393,413 |
| ADMINISTRATION/TECHNOLOGY/OTHERS | 269,364 | 277,315 | 299,074 | 309,431 |

Expenditure on education, compact⁶

| | 2000 | 2010 | 2016 |
|--|-------|-------|-------|
| National budget for education, research and science for Germany overall (billion €) | 183,4 | 237,0 | 281,7 |
| SHARE OF GDP | 9,1 | 9,2 | 9,0 |
| BUDGET FOR EDUCATION | 128,5 | 174,8 | 200,1 |
| INCLUDING PUBLIC SECTOR | 95,2 | 137,8 | |
| PRIVATE SECTOR | 33,3 | 34,7 | |
| ABROAD | | 0,6 | |
| BUDGET FOR RESEARCH AND DEVELOPMENT | 50,6 | 70,0 | 92,2 |

| | 2000 | 2010 | 2016 |
|--|------------|-------------|-------------|
| Total public expenditure on education (in thousand €) | 79,263,636 | 106,218,684 | 128,374,086 |

| | 2000 | 2010 | 2016 |
|---|-----------|-----------|-----------|
| Federal education budget (in thousand €) | 2,979,012 | 7,769,160 | 9,817,984 |

| | 2000 | 2010 | 2016 |
|---|------------|------------|-------------|
| Public education budget acc. to Länder (in thousand €) | 76,284,624 | 98,449,524 | 118,556,102 |
| BADEN-WÜRTTEMBERG | 10,141,072 | 13,139,118 | 16,102,556 |
| BAVARIA | 10,893,621 | 15,092,322 | 18,615,003 |
| BERLIN | 4,067,714 | 4,591,018 | 6,360,071 |
| BRANDENBURG | 2,220,389 | 2,421,836 | 2,972,152 |
| BREMEN | 741,741 | 880,721 | 1,035,971 |
| HAMBURG | 2,280,092 | 2,657,466 | 3,349,633 |
| HESS | 5,278,080 | 8,094,538 | 9,166,871 |
| MECKLENBURG-WESTERN POMMERANIA | 1,751,711 | 1,800,217 | 2,023,725 |
| LOWER SAXONY | 6,828,936 | 9,105,839 | 11,012,556 |
| NORTH RHINE-WESTPHALIA | 16,323,224 | 21,342,951 | 26,290,653 |
| RHINELAND-PALATINATE | 3,410,275 | 4,851,895 | 5,181,321 |
| SAARLAND | 848,044 | 1,119,937 | 1,237,958 |
| SAXONY | 4,052,436 | 5,048,796 | 5,791,478 |
| SAXONY-ANHALT | 2,710,189 | 2,695,686 | 2,962,435 |
| SCHLESWIG-HOLSTEIN | 2,214,894 | 2,956,935 | 3,566,660 |
| THURINGIA | 2,522,211 | 2,650,252 | 2,887,059 |

| | 2000 | 2010 | 2016 |
|--|------------|------------|------------|
| Public education budget acc. to educational fields (in thousand €) | | | |
| PUBLIC SPENDING FOR DAY-CARE FACILITIES | 7,499,086 | 15,738,776 | 24,663,853 |
| GENERAL EDUCATION AND VOCATIONAL SCHOOLS | 46,722,850 | 59,059,217 | 63,996,520 |
| SPENDING PER PUPIL | - | 6,000 | 6,900 |
| INSTITUTIONS OF HIGHER EDUCATION | 17,242,559 | 22,527,254 | 29,842,709 |
| CURRENT EXPENDITURE PER STUDENT | 6,000 | 6,400 | 6,800 |
| OTHER EDUCATION | 1,626,142 | 1,691,552 | 1,618,850 |
| YOUTH AND YOUTH ASSOCIATIONS WORK | 3,449,800 | 1,872,913 | 2,091,775 |
| PUPIL / STUDENT SUPPORT | 2,723,199 | 5,328,972 | 6,160,380 |
| SPENDING BY THE FEDERAL EMPLOYMENT AGENCY AND THE FEDERAL MINISTRY OF LABOUR AND SOCIAL AFFAIRS FOR INITIAL EDUCATION | - | 4,331,304 | 3,692,624 |
| ADDITIONAL EXPENDITURE TO SUPPORT VOCATIONAL TRAINING | - | 2,746,987 | 2,922,154 |

Forecasts for the school sector

| | 2018 | 2025 | 2030 |
|--|------------|------------|------------|
| Total no. of pupils¹¹ | 10,881,511 | 11,067,853 | 11,164,608 |
| GENERAL EDUCATION SCHOOLS | 8,389,708 | 8,757,018 | 8,817,667 |
| in % | 77,1% | 79,1% | 78,4% |
| VOCATIONAL SCHOOLS | 2,491,803 | 2,310,834 | 2,346,940 |
| in % | 22,9% | 20,9% | 21,6% |
| PRE-SCHOOL LEVEL | 28,475 | 30,847 | 30,503 |
| PRIMARY LEVEL | 2,918,092 | 3,063,761 | 3,018,605 |
| SECONDARY LEVEL I | 4,174,216 | 4,342,580 | 4,420,856 |
| SECONDARY LEVEL II (GEN. EDU. SCHOOLS) | 961,177 | 1,026,129 | 1,055,387 |
| SPECIAL SCHOOLS | 307,747 | 293,702 | 292,317 |
| SECONDARY LEVEL II (VOCATIONAL SCHOOLS, FULL-TIME FORM) | 939,384 | 862,491 | 872,516 |
| SECONDARY LEVEL II (VOCATIONAL SCHOOLS, PART-TIME FORM) | 1,552,419 | 1,448,343 | 1,474,424 |

| | 2018 | 2025 | 2030 |
|--|-----------|-----------|-----------|
| Total no. of school leavers¹¹ | 1,812,899 | 1,682,756 | 1,729,074 |
| GENERAL EDUCATION SCHOOLS | 804,258 | 765,932 | 808,891 |
| W/O HAUPTSCHULABSCHLUSS | 46,115 | 44,697 | 45,777 |
| WITH HAUPTSCHULABSCHLUSS | 129,212 | 122,487 | 125,720 |
| MITTLERER SCHULABSCHLUSS (INTERMEDIATE LEVEL QUALIFICATION) | 341,523 | 334,623 | 340,002 |
| WITH HIGHER EDU. ENTRANCE QUALIFICATION | 286,569 | 263,365 | 296,582 |
| WITH HIGHER EDU. ENTRANCE QUALIFICATION | 839 | 760 | 810 |
| VOCATIONAL SCHOOLS | 1,008,641 | 916,824 | 920,183 |
| WITH HIGHER EDU. ENTRANCE QUALIFICATION | 57,240 | 52,465 | 49,724 |
| WITH HIGHER EDU. ENTRANCE QUALIFICATION | 96,809 | 89,288 | 90,146 |

| | 2018 | 2025 | 2030 |
|---|---------|---------|---------|
| Total no. of pupils eligible to study¹¹ | 441,456 | 405,878 | 437,262 |
| WITH HIGHER EDU. ENTRANCE QUALIFICATION | 343,809 | 315,830 | 346,305 |
| WITH HIGHER EDU. ENTRANCE QUALIFICATION | 97,648 | 90,048 | 90,957 |

Teacher recruitment demand and supply^{14|15}

| | 2018 | 2025 | 2030 | AVERAGE 2018–2030 |
|-------------------------------------|--------|--------|--------|-------------------|
| Teacher recruitment demand | | | | |
| LA 1 - PRIMARY SCHOOL | 8,140 | 6,400 | 4,220 | 6,310 |
| LA 2 - PRIMARY SCHOOL/SEC. I | 3,240 | 2,260 | 2,010 | 2,480 |
| LA 3 - SEC. I | 9,790 | 6,580 | 6,660 | 7,040 |
| LA 4 - SEC II (GEN.) | 9,630 | 9,360 | 7,630 | 8,350 |
| LA 5 - SEC II (VOC.) | 4,500 | 3,120 | 4,560 | 3,590 |
| LA 6 - SPECIAL EDUCATION | 5,670 | 3,060 | 2,840 | 3,320 |
| PRACT. EXP. | 790 | 740 | 810 | 770 |
| TOTAL | 41,750 | 31,520 | 28,730 | 31,860 |

| | 2018 | 2025 | 2030 | AVERAGE 2018–2030 |
|-------------------------------------|--------|--------|--------|-------------------|
| Teacher recruitment supply | | | | |
| LA 1 - PRIMARY SCHOOL | 4,880 | 5,990 | 6,090 | 5,650 |
| LA 2 - PRIMARY SCHOOL/SEC. I | 1,880 | 1,920 | 1,930 | 1,940 |
| LA 3 - SEC. I | 5,020 | 5,050 | 4,890 | 4,830 |
| LA 4 - SEC II (GEN.) | 12,720 | 12,200 | 12,280 | 12,370 |
| LA 5 - SEC II (VOC.) | 2,890 | 2,990 | 2,900 | 2,920 |
| LA 6 - SPECIAL EDUCATION | 2,460 | 3,090 | 3,110 | 2,890 |
| PRACT. EXP. | 400 | 610 | 640 | 600 |
| TOTAL | 30,250 | | | |

Data basis

Statistics: January 2019

Sources

Ministries of Education and Cultural Affairs of the Länder
German Federal Statistical Office
Bildungsfinanzbericht (Educational Finance Report)
IQB (Institute for Educational Quality Improvement)

Legal notices

Secretariat of the Standing Conference
of the Ministers of Education and Cultural Affairs
of the Länder in the Federal Republic of Germany

Department IV C – Statistics
10117 Berlin, Germany
Taubenstraße 10

Phone +49 30 25418-499

Fax +49 30 25418-450

statistik@kmk.org

www.kmk.org

Public relations

Andreas Schmitz, M.A.
Phone +49 228 501-611
andreas.schmitz@kmk.org

Published in February 2019