INDICATOR A2

CURRENT UPPER SECONDARY GRADUATION RATES

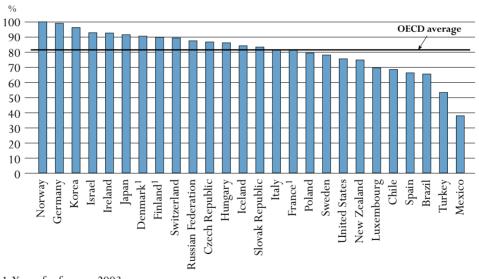
This indicator shows the current upper secondary graduate output of education systems, *i.e.* the percentage of the typical population of upper secondary school age that follows and successfully completes upper secondary programmes.

Key results

Chart A2.1. Upper secondary graduation rates (2004)

The chart shows the number of students completing upper secondary education programmes for the first time, as a percentage of the age group normally completing this level. Although not all of the graduates are in this age band, this calculation gives an indication of how many of today's young people are completing upper secondary education.

In 18 of 22 OECD countries and in 2 of the 4 partner countries for which comparable data are available, the ratio of upper secondary graduates to the population at the typical age of graduation exceeds 70%. In Denmark, Finland, Germany, Ireland, Japan, Korea and Norway, and the partner country Israel, graduation rates equal or exceed 90%. The challenge is now to ensure that the remaining fraction is not left behind, with the risk of limited job prospects that this may entail.



1.Year of reference 2003. Countries are ranked in descending order of upper secondary graduation rates. Source: OECD. Table A2.1. See Annex 3 for notes (www.oecd.org/edu/eag2006).

Other highlights of this indicator

- Females are now more likely to complete upper secondary education than males in almost every OECD country, a reversal of the historical pattern. Today, only in Turkey are graduation rates for females below those for males.
- The vast majority of students who graduate from upper secondary programmes graduate from programmes that are designed to provide access to further tertiary education.
- Most students obtain upper secondary qualifications giving them access to university-level study (ISCED 5A), although the extent to which students go on to take up such study varies significantly between countries.
- In many countries, males are more likely to be on vocational courses. Still, in nearly half of the countries represented there is either no gender difference or a higher proportion of females on such courses.
- In some countries, a significant proportion of students broaden their knowledge at the post-secondary non-tertiary level after completing a first upper secondary programme. In the Czech Republic, Hungary and Ireland, 20% or more of a typical age cohort complete a post-secondary non-tertiary programme.

INDICATOR A2

Policy context

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Rising skill demands in OECD countries have made qualifications at the upper secondary level the minimum credential for successful labour market entry. Upper secondary education serves as the foundation for advanced learning and training opportunities, as well as preparation for direct entry into the labour market. Although many countries do allow students to leave the education system at the end of the lower secondary level, young people in OECD countries who leave without an upper secondary qualification tend to face severe difficulties in entering the labour market (see Indicators A8, A9 and A10).

High upper secondary graduation rates do not guarantee that an education system has adequately equipped its graduates with the basic skills and knowledge necessary to enter the labour market because this indicator does not capture the quality of educational outcomes. But these graduation rates do give an indication of the extent to which educational systems succeed in preparing students to meet the minimum requirements of the labour market.

Evidence and explanations

Graduation from upper secondary education is becoming the norm in most OECD countries. In 18 of 22 OECD countries and in 2 of the 4 partner countries for which comparable data are available, upper secondary graduation rates exceed 70% (Chart A2.1). In Denmark, Finland, Germany, Ireland, Japan, Korea and Norway and the partner country Israel, graduation rates equal or exceed 90%.

The challenge is now to ensure that the remaining fraction is not left behind, with the risk of limited job prospects that this could entail.

Gender differences

The balance of educational attainment between males and females in the adult population is unequal in most countries. In the past, females did not have sufficient opportunities and/or incentives to reach the same level of education as males. Females have generally been overrepresented among those who did not proceed to upper secondary education and underrepresented at the higher levels of education. However, these gender differences are most evident in older age groups and have been significantly reduced or reversed among younger age groups (see Indicator A1).

Today, it is males who trail behind females in upper secondary graduation in almost every OECD country (Table A2.1). Graduation rates for females exceed those for males in 19 of 22 OECD countries and in the 3 partner countries for which total upper secondary graduation rates can be compared between the genders. The exception is Turkey, where graduation rates are higher for males. In Korea and Switzerland, graduation rates are similar for both genders, with a less than one percentage point difference. The gender gap is greatest in Denmark, Finland, Iceland, Ireland, New Zealand, Norway, Poland and Spain, and in the partner country Brazil, where female graduation rates exceed those of males by more than 10 percentage points.

Transitions following educational programmes

Graduation from upper secondary education is becoming the norm in most OECD and partner countries, but curriculum content in upper secondary programmes can vary depending on the type of education or occupation for which the programmes are designed. Most upper secondary programmes in OECD countries are designed primarily to prepare students for tertiary studies, and their orientation can be general, pre-vocational or vocational.

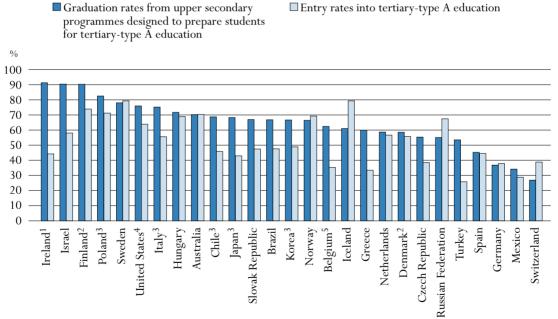
The vast majority of students who graduate from upper secondary programmes graduate from programmes that are designed to provide access to further tertiary education (ISCED 3A and 3B). Programmes to facilitate direct entry into tertiary-type A education are preferred by students in all countries, except in Germany and Switzerland where both female and male students are more likely to graduate from upper secondary programmes leading to tertiary-type B programmes (Table A2.1).

The graduation rate for ISCED 3C (long) programmes is 20% on average in the OECD countries.

It is interesting, however, to contrast the proportion of students who graduate from programmes designed for entry into tertiary-type A programmes with the proportion who actually do enter these programmes. Chart A2.2 shows this comparison and demonstrates significant variation among countries. For instance, in the OECD countries Belgium, Greece, Ireland, Japan and Turkey and the partner countries Brazil, Chile and Israel, the difference between graduation rates

Chart A2.2. Access to tertiary-type A education for upper secondary graduates (2004)

Comparison of graduation rates from upper secondary programmes designed for tertiary-type A entry with actual entry rates to tertiary-type A education



1. Full-time entrants only.

2. Year of reference 2003.

3. Entry rate for tertiary-type A programmes calculated as gross entry rate.

4. Tertiary-type A education includes tertiary-type B education.

5. Excludes the German speaking community of Belgium.

Countries are ranked in descending order of graduation rates from upper secondary programmes designed to prepare students for tertiary-type A education.

Source: OECD. Tables A2.1. and C2.1. See Annex 3 for notes (www.oecd.org/edu/eag2006).

from upper secondary programmes designed for tertiary-type A programmes and the eventual entry rate to these tertiary-type A programmes is relatively large (more than 20 percentage points). This suggests that many students who achieve qualifications designed for university level entrance do not in fact go on to take up university studies, although at least in Belgium such upper secondary programmes may also give access to tertiary-type B programmes. In contrast, in countries such as Australia, Denmark, Germany, Hungary, Netherlands, Norway, Spain and Sweden, where the comparative graduation and entry rates are similar, the reverse seems to be true.

In 14 out of 25 OECD countries for which comparable data are available, more males than females graduate from pre-vocational and vocational upper secondary programmes. Graduation rates for these programmes are higher for females in seven OECD countries – Belgium, Denmark, Finland, Ireland, the Netherlands, Norway and Spain – and are the same for males and females in the four remaining OECD countries.

Graduation from post-secondary non-tertiary programmes

Post-secondary non-tertiary programmes of various kinds are offered in 26 OECD countries. From an international comparative point of view such programmes straddle the boundary between upper secondary and post-secondary education, even though they might clearly be considered either upper secondary or post-secondary programmes in a national context. Although the content of these programmes may not be significantly more advanced than upper secondary programmes, post-secondary non-tertiary programmes programs serve to broaden the knowledge of participants who have already gained an upper secondary qualification. The students tend to be older than those enrolled at the upper secondary level.

Typical examples of such programmes are trade and vocational certificates in Canada and the United States, nursery teacher training in Austria and Switzerland or vocational training in the dual system for holders of general upper secondary qualifications in Germany. In most countries, post-secondary non-tertiary programmes are vocationally oriented.

In 12 of the 19 OECD countries with available data, the majority of, if not all, post-secondary non-tertiary students graduate from ISCED 4C programmes, which are designed primarily to prepare graduates for direct entry into the labour market.

Apprenticeships that are designed for students who have already graduated from an upper secondary programme are also included in the post-secondary non-tertiary programmes. However, in 7 out of 20 OECD countries, 50% or more of post-secondary non-tertiary graduates have completed programmes designed to provide direct access to either tertiary-type A or B education. In Switzerland, 72% graduate from ISCED 4B programmes.

Definitions and methodologies

The data for the school year 2003-2004 are based on the UOE data collection on education statistics administered annually by the OECD.

In Table A2.1, upper secondary graduates are those who successfully complete the final year of upper secondary education, regardless of age. In some countries, successful completion requires a final examination, and in others it does not (see Annex 1).

Upper secondary graduation rates are estimated as the number of students, regardless of age, who graduate for the first time from upper secondary programmes, divided by the population at the age at which students typically graduate from upper secondary education (see Annex 1). The graduation rates take into account students graduating from upper secondary education at the typical (modal) graduation ages, as well as older students (*e.g.* those in "second chance" programmes). The unduplicated total count of graduates is calculated by netting out those students who have graduated from another upper secondary programme in a previous year.

Counts of students for ISCED 3A, 3B and 3C programmes are not unduplicated, however. Gross graduation rates cannot be added, as some individuals graduate from more than one upper secondary programme and would thus be counted twice. The same applies for graduation rates by programme orientation, *i.e.* general or vocational.

Pre-vocational and vocational programmes include both school-based programmes and combined school- and work-based programmes that are recognised as part of the education system. Entirely work-based education and training that is not overseen by a formal education authority is not taken into account.

In Table A2.2, post-secondary non-tertiary graduates are those who successfully complete the final year of post-secondary non-tertiary education, regardless of age. In some countries, successful completion requires a final examination, and in others it does not.

Post-secondary non-tertiary graduation rates are estimated as the number of students, regardless of age, who graduate for the first time from post-secondary non-tertiary programmes, divided by the population at the age at which students typically graduate from these programmes (see Annex 1). The graduation rates take into account students graduating at the typical (modal) graduation ages, as well as older students. The unduplicated total count of graduates is calculated by netting out those students who have graduated from another post-secondary non-tertiary programme in a previous year.

For some countries, an unduplicated count of post-secondary non-tertiary graduates is unavailable and graduation rates may be overestimated because of graduates who have completed multiple programmes at the same level. These countries are marked with a footnote in the Table A2.2.

Counts of students for ISCED 4A, 4B and 4C programmes are not unduplicated. Gross graduation rates cannot be added, as some individuals graduate from more than one post-secondary non-tertiary programme and would thus be counted twice.

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	Percentage of upper se	Percentage of upper secondary graduates to the population at the typical age of graduation, by programme destination							tination, p	programi	ne orienta	tion an	d gender			
		(un	Total duplic		ISCED 3A (designed to prepare for direct entry to tertiary-type A education)		gned (designed epare to prepare (l irect for direct t y to entry to -typeA tertiary-type B		to duration of typical 3A or 3B		duration of typical 3A or 3B		General		Pre-vocational/ vocational programmes	
										Females						Females
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
trie	Australia	m	m	m	70	75	x(8)	x(9)	54	51	x(8)	x(9)	70	75	54	51
DECD countries	Austria	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
ĕ	Belgium ¹	m	m	m	62	67	а	а	20	18	17	22	37	43	62	65
OE	Canada	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Czech Republic	87	85	88	55	64	n	n	31	23	n	n	18	23	69	65
	Denmark ²	90	81	100	58	70	a	а	56	63	a	а	58	70	56	63
	Finland ²	90	84	96	90	96	а	а	a	а	а	а	52	62	75	83
	France ²	81	78	84	51	60	11	10	38	33	3	2	33	40	70	65
	Germany	99	97	101	37	40	61	60	а	а	1	1	36	40	62	61
	Greece	m	m	m	59	68	а	а	37	36	x(8)	x(9)	59	68	39	38
	Hungary	86	82	90	71	80	а	а	19	15	x(8)	x(9)	71	80	21	15
	Iceland	84	72	96	61	75	1	2	37	30	15	17	61	75	52	48
	Ireland	92	86	99	91	97	а	а	6	6	а	а	66	69	34	38
	Italy	81	80	83	75	78	3	4	a	а	19	18	29	38	67	60
	Japan	91	90	92	68	71	1	n	23	21	x(8)	x(9)	68	71	24	21
	Korea	96	96	96	66	66	a	а	30	30	а	а	66	66	30	30
	Luxembourg	69	66	73	42	49	7	7	18	15	2	1	28	31	42	42
	Mexico	38	34	41	34	37	a	а	4	4	a	a	34	37	4	4
	Netherlands	m	m	m	58	65	а	а	20	22	22	18	34	38	66	68
	New Zealand	75	65	85	x (1)	x(3)	x(1)	x(3)	x (1)	x(3)	x (1)	x(3)	x (1)	x(3)	x (1)	x(3)
	Norway	100	86	114	66	80	а	а	45	46	m	m	66	80	45	46
	Poland	79	70	89	82	87	а	а	a	а	7	7	43	52	45	42
	Portugal	m	m	m	53	62	x(4)	x(5)	x(4)	x(5)	x(4)	x(5)	40	48	14	14
	Slovak Republic	83	81	85	66	74	a	а	22	15	1	2	22	26	68	62
	Spain	66	58	75	45	54	а	а	18	19	7	8	45	54	25	27
	Sweden	78	75	81	77	81	а	а	1	n	а	а	37	44	41	37
	Switzerland	89	89	90	27	30	61	55	12	16	m	m	29	35	70	66
	Turkey	53	57	49	53	49	а	а	m	m	а	а	34	33	19	15
	United Kingdom	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	United States	75	72	79	75	79	а	а	a	а	а	а	75	79	a	а
	OECD average	81	77	86	61	67	6	6	20	19	5	5	47	53	44	43
	EU19 average	83	79	88	63	70	5	5	18	17	6	6	42	49	50	50
er es	Brazil	65	57	75	66	76	а	а	а	а	а	а	65	74	1	2
Partner countries	Chile	68	64	72	68	72	a	a	a	a	a	a	37	41	32	32
L.	Israel	93	89	96	90	95	a	a	3	1	a	a	59	66	34	30
	Russian Federation		x(1)	x(1)	55	x(4)	11	u x(6)	18	x(8)	4	u x(10)	55	x(12)	33	x(14)
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Table A2.1. Upper secondary graduation rates (2004)

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Note: Mismatches between the coverage of the population data and the student/graduate data mean that the participation/graduation rates for those countries that are net exporters of students may be underestimated (for instance Luxembourg) and those that are net importers may be overestimated.

1. Excludes the German-speaking Community of Belgium.

2.Year of reference 2003.

Source: OECD. See Annex 3 for notes (www.oecd.org/edu/eag2006).

Please refer to the Reader's Guide for information concerning the symbols replacing missing data.

·		Total (unduplicated)			ISCED 4A (designed to prepare for direct entry to tertiary-type A education)		(designed for dire	D 4B to prepare ct entry cy-type B ation)	ISCED 4C (designed to prepare for direct entry to the labour market)		
		M + F	Males	Females	M + F	Females	M + F	Females	M + F	Females	
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
ries	Australia	m	m	m	а	а	а	а	20.0	23.5	
ount	Austria	m	m	m	m	m	m	m	m	m	
OECD countries	Belgium ^{1,2}	m	m	m	7.6	7.6	2.9	3.1	8.6	10.1	
OEC	Canada	m	m	m	x(8)	x(9)	x(8)	x(9)	4.6	5.9	
	Czech Republic	30.4	28.8	32.2	25.2	28.2	а	а	5.2	4.0	
	Denmark ^{1,3}	1.0	1.4	0.6	1.0	0.6	а	а	a	а	
	Finland ³	2.3	2.2	2.4	а	а	а	а	4.5	4.8	
	France ³	1.2	0.8	1.6	0.6	0.8	а	а	0.6	0.8	
	Germany	15.4	16.5	14.2	10.3	9.7	5.1	4.5	a	а	
	Greece	9.9	9.1	10.7	а	а	а	а	9.9	10.7	
	Hungary	20.0	18.1	21.9	а	а	а	а	27.0	29.5	
	Iceland	6.9	7.7	6.0	a	а	а	а	6.9	6.1	
	Ireland	27.7	31.7	23.4	а	а	а	а	27.7	23.4	
	Italy	6.0	4.6	7.5	а	а	а	а	6.0	7.5	
	Japan	m	m	m	m	m	m	m	m	m	
	Korea	а	а	а	а	а	а	а	a	а	
	Luxembourg	3.6	4.9	2.3	а	а	а	а	3.6	2.3	
	Mexico	a	а	а	a	а	а	а	a	a	
	Netherlands ¹	1.2	1.9	0.5	а	а	а	а	1.2	0.5	
	New Zealand	12.0	7.5	16.7	x(1)	x(3)	x(1)	x(3)	x(1)	x(3)	
	Norway	4.3	7.2	1.3	1.1	0.3	а	а	3.9	1.2	
	Poland	13.1	9.6	16.8	а	а	a	а	13.1	16.8	
	Portugal	m	m	m	m	m	m	m	m	m	
	Slovak Republic	2.8	2.3	3.4	2.8	3.4	а	а	a	a	
	Spain	а	а	а	а	а	а	а	a	а	
	Sweden	0.6	0.6	0.5	m	m	а	а	0.6	0.5	
	Switzerland	14.7	11.4	18.0	4.5	3.7	11.2	15.6	а	а	
	Turkey	а	а	а	а	а	а	а	a	а	
	United Kingdom	m	m	m	m	m	m	m	m	m	
	United States	m	m	m	m	m	m	m	m	m	
	OECD average	7.9	7.6	8.2	2.4	2.5	0.8	1.0	6.0	6.2	
	EU19 average	9.0	8.8	9.2	3.2	3.3	0.5	0.5	6.7	6.9	
5 8	Brazil	а	а	а	а	а	а	а	a	a	
countries	Chile	a	a	a	a	a	a	a	a	a	
cou	Israel	m	m	m	m	m	a	a	a	a	
	Russian Federation	m	m	m	a	a	a	a	7	a 7	
	reassian rectation	111	111		a	a	a	a	/	/	

Table A2.2. Post-secondary non-tertiary graduation rates (2004)

Percentage of post-secondary non-tertiary graduates to the population at the typical age of graduation, by programme destination and gender

Partner

Note: Mismatches between the coverage of the population data and the student/graduate data mean that the participation/graduation rates for those countries that are net exporters of students may be underestimated (for instance, Luxembourg) and those that are net importers may be overestimated.

1. Gross graduation rate may include some double counting.

2. Excludes the German-speaking Community of Belgium.

3. Year of reference 2003.

Source: OECD. See Annex 3 for notes (www.oecd.org/edu/eag2006).

Please refer to the Reader's Guide for information concerning the symbols replacing missing data.

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Many people have contributed to the development of this publication. The following lists the names of the country representatives, researchers and experts who have actively taken part in the preparatory work leading to the publication of *Education at a Glance – OECD Indicators 2006*. The OECD wishes to thank them all for their valuable efforts.

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TABLE OF CONTENTS

			Name of the indicator in the 2005 edition
Foreword		. 3	
Editorial		3	
Introduction.		.9	
Reader's Guid	l e 2	23	
CHAPTER A	THE OUTPUT OF EDUCATIONAL INSTITUTIONS AND THE IMPACT OF LEARNING	7	
Table A1.1a	Educational attainment of the adult population 2 Educational attainment: adult population (2004) 3 Population that has attained at least upper secondary	28	A1
Table A1.4	education (2004)	39 10	
	Current upper secondary graduation rates 4 Upper secondary graduation rates (2004) 4 Post-secondary non-tertiary graduation rates (2004) 4	+2 +8	A2
Indicator A3 Table A3.1 Table A3.2	Current tertiary graduation and survival rates5Tertiary graduation rates (2000, 2004)5Survival rates in tertiary education (2004)5	58	A3
Table A4.1	What 15-year-olds can do in mathematics6Percentage of students at each level of proficiency7on the OECD PISA mathematics scale (2003)7Mean student performance and variation on different aspectsof the OECD PISA mathematics scale (2003)7Mean score and variation in student performanceon the OECD PISA mathematics scale (2003)7	70 71	A4
Indicator A5 Table A5.1	Between- and within-school variation in the mathematics performance of 15-year-olds		A6
Indicator A6 Table A6.1	Fifteen-year-old students who perform at the lowest levels of proficiency in mathematics (2003)	ve s	

TABLE OF CONTENTS

Name of
the indicator
in the
2005 edition

Table A6.2	Reading performance of lowest mathematics	
T.I.I. A.C. 2	performers (2003)	
Table A6.3	1 0	
	performers (2003)	
Indicator A7	Institutional differentiation, socio-economic status and	
	15-year-old students' mathematics performance (2003)	
Table A7.1	Institutional differentiation, variance in mathematics	
	performance, and economic, social	
	and cultural status (ESCS), (2003)102	
Indicator A8	Labour force participation by level of	
	educational attainment	A8
Table A8, 1a	Employment rates and educational attainment,	
lubicitio, iu	by gender (2004)	
Table A8 2a	Unemployment rates and educational attainment,	
Table 110.2a	by gender (2004)114	
Table 48 3a	Trends in employment rates, by educational attainment	
Table A0.3a	(1991-2004)	
Table AS da	Trends in unemployment rates, by educational attainment	
Table A0.+a	(1991-2004)	
	(1991-200+)	
Indicator A9	The returns to education: education and earnings	A9
Table A9.1a	Relative earnings of the population with income from	
	employment (2004 or latest available year)	
Table A9.1b	Differences in earnings between females and males	
	(2004 or latest available year)137	
Table A9.2a	Trends in relative earnings: adult population (1997-2004)138	
	Trends in differences in earnings between females and males	
	(1997-2004)	
Table A9.4a	Distribution of the 25-to-64-year-old population,	
	by level of earnings and educational attainment	
	(2004 or latest available year)141	
Table A9.4b	•	
	and educational attainment (2004 or latest available year)	
Table A9.4c	Distribution of the 25-to-64-year-old females by level of earnings	
	and educational attainment (2004 or latest available year)	
Table A9.5	Private internal rates of return for an individual obtaining an	
	upper secondary or post-secondary non-tertiary education,	
	ISCED 3/4 (2003)	
Table A9-6	Private internal rates of return for an individual obtaining	
Tuble 119.0	a university-level degree, ISCED 5/6 (2003)	
Table A9.7		
14010119.1	an upper secondary or post-secondary non-tertiary education,	
	ISCED 3/4 (2003)	
Table A 9 8	Public internal rates of return for an individual obtaining	
10010112.0		
	a university-level degree, ISCED 5/6 (2003)151	

		Name of the indicator in the 2005 edition
Indicator A10	The returns to education: links between education,	
	economic growth and social outcomes152	A10
	Impact of demographic trends on education provision160 Demographic trends between 2005 and 2015 and indicative impact on educational expenditure, student enrolments and graduate numbers	
CHAPTER B	FINANCIAL AND HUMAN RESOURCES INVESTED IN EDUCATION 167	
Indicator B1	Educational expenditure per student	B1
	Annual expenditure on educational institutions per student for all services (2003)	
Table B1.1b	Annual expenditure on educational institutions per student	
	for all services, by type of programme (2003)187	
	Annual expenditure per student on core services, ancillary services and R&D (2003)	
Table B1.2	Distribution of expenditure (as a percentage) on educational institutions compared to number of students enrolled	
Table B1.3a	at each level of education (2003)	
Table B1.3b	secondary studies (2003)	
Table B1.4	over the average duration of tertiary studies (2003)	
Table B1.5	Change in expenditure on educational institutions for all services per student relative to different factors, by level of education (1995, 2003)	
Indicator B2	Expenditure on educational institutions relative to Gross Domestic Product194	B2
Table B2.1a	Expenditure on educational institutions as a percentage of GDP, for all levels of education (1995, 2000, 2003)205	D2
Table B2.1b	Expenditure on educational institutions as a percentage of GDP, by level of education (1995, 2000, 2003)	
Table B2.1c	Expenditure on educational institutions as a percentage of GDP, by level of education (2003)	
Table B2.2	Change in expenditure on educational institutions (1995, 2003)	
Table B2.3	Change in expenditure on educational institutions (1995, 2000, 2001, 2002, 2003)	
Indicator B3	Public and private investment in educational institutions210	B3
Table B3.1	Relative proportions of public and private expenditure on educational institutions for all levels of education	63
	(1995, 2003)	

		Name of the indicator in the 2005 edition
Table B3.2a	Relative proportions of public and private expenditure on educational institutions, as a percentage, by level of education (1995, 2003)	
Table B3.2b		
Table B3.3	Trends in relative proportions of public expenditure on educational institutions, for tertiary education (1995, 2000, 2001, 2002, 2003)	
Indicator B4 Table B4.1 Table B4.2	Total public expenditure on education222Total public expenditure on education (1995, 2003)228Distribution of total public expenditure on education (2003)229	B4
Indicator B5	Tuition fees charged by tertiary institutions and support	DF
Table B5.1	for students and households through public subsidies	B5
Table B5.2	educational institutions (school year 2003-2004)	
Indicator B6	Expenditure in institutions by service category and	
Table B6.1	by resource category	B6
Table B6.2	Expenditure on educational institutions by resource category and level of education (2003)	
CHAPTER C	ACCESS TO EDUCATION, PARTICIPATION AND PROGRESSION 255	
Indicator C1	Enrolment in education from primary education	
Table C1 1	to adult life	C1
	Enrolment rates, by age (2004)	
	Transition characteristics from age 15 to 20,	
	by level of education (2004)	
Indicator C2	Participation in secondary and tertiary education	C2
Table C2.1	Entry rates into tertiary education and age distribution	
	of new entrants (2004)	
Table C2.2	Expected years in tertiary education and changes	
Table C2 3	in tertiary enrolment (2004)	
Table C2.3	Students in tertiary education by type of institution or mode of study (2004)	
Table C2.4	Students in primary and secondary education by type of	
• •	institution or mode of study (2004)	
Table C2.5	Upper secondary enrolment patterns (2004)	

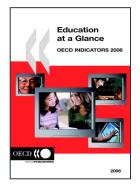
Name of the indicator in the 2005 edition

Indicator C3	Student mobility and foreign students in tertiary education	C3
Table C3.1	Student mobility and foreign students in tertiary education	
Table C3.2	(2000, 2004)	
Table C3.3	education, by country of origin (2004)	
	by country of destination (2004)	
	education, by level and type of tertiary education (2004)	
Table C3.5	Distribution of international and foreign students in tertiary education, by field of education (2004)	
Table C3.6	Trends in the number of foreign students enrolled outside their country of origin (2000 to 2004)	
Table C3.7	Percentage of tertiary qualifications awarded to international and foreign students, by type of tertiary education (2004)	
Indicator C4	Education and work status of the youth population	C4
Table C4.1a	Expected years in education and not in education for 15-to-29-year-olds (2004)	
Table C4.2a	Percentage of the youth population in education	
Table C4.3	and not in education (2004)	
Table C4.4a	and unemployed (2004)	
	in education and not in education (1995-2004)	
Indicator C5	Participation in adult learning	C6
Table C5.1a	Participation rate and expected number of hours in non-formal job-related education and training, by level of educational	
	attainment (2003)	
Table C5.1b	Expected number of hours in non-formal job-related education	
	and training, by age group and labour force status (2003)	
	Expected number of hours in non-formal job-related education and training, by level of educational attainment (2003)	
CHAPTER D	THE LEARNING ENVIRONMENT AND ORGANISATION OF SCHOOLS 347	
Indicator D1	Total intended instruction time for students in primary	
	and secondary education	D1
Table D1.1	Compulsory and intended instruction time in public institutions (2004)	DI
Table D1.2a	Instruction time per subject as a percentage of total	
Table D1.2b	compulsory instruction time for 9-to-11-year-olds (2004)	
	compulsory instruction time for 12-to-14-year-olds (2004)358	

			Name of the indicator in the 2005 edition
Indicator D2	Class size and ratio of students to teaching staff	360	D2
Table D2.1	Average class size, by type of institution and level		
	of education (2004)	370	
Table D2.2	Ratio of students to teaching staff in educational		
	institutions (2004)	371	
Table D2.3	Ratio of students to teaching staff by type of institution (2004)	372	
Indicator D3	Teachers' salaries	374	D3
Table D3.1	Teachers' salaries (2004)	384	
	Adjustments to base salary for teachers		
	in public institutions (2004)	386	
Table D3.2b	Adjustments to base salary for teachers in public institutions		
	made by school principal (2004)	388	
Table D3.2c	Adjustments to base salary for teachers in public institutions		
	made by local or regional authority (2004)	390	
Table D3.2d			
	made by the national authority (2004)		
Table D3.3	Change in teachers' salaries (1996 and 2004)		
Indicator D4	Teaching time and teachers' working time	396	D4
Table D4.1	Organisation of teachers' working time (2004)		Di
Indicator D5	Access to and use of ICT		
Table D5.1	Various ICT resources in secondary schools and percentage		
	of various types of computers in schools (2003)	414	
Table D5-2	Percentage of students in secondary schools whose principals		
Tuble D3.2	report that instruction is hindered by a shortage		
	of ICT resources (2003)	415	
Table D5.3			
Table D3.5	school or other places, by frequency of use (2003)		
	school of other places, by frequency of use (2005)	1 /	
ANNEX 1	Characteristics of Educational Systems	419	
Table X1.1a		420	
Table X1.1b	Typical graduation ages in post-secondary non-tertiary		
	education		
Table X1.1c	Typical graduation ages in tertiary education	422	
Table X1.2a	School year and financial year used for the calculation		
	of indicators	423	
Table X1.2b	School year and financial year used for the calculation		
	of indicators	424	
Table X1.3	Summary of completion requirements		
	for upper secondary (ISCED 3) programmes	425	
ANNEX 2	Reference Statistics	429	
	Overview of the economic context using basic variables		
10010 112.1	(reference period: calendar year 2003, 2003 current prices)	430	
Table X2-2	Basic reference statistics		
14010 112,2	(reference period: calendar year 2003, 2003 current prices)	431	

Name of the indicator in the 2005 edition

Table X2.3	Basic reference statistics	
	(reference period: calendar year 1995, 1995 current prices)432	
Table X2.4	Annual expenditure on educational institutions per student	
	for all services (2003)	
Table X2.5	Annual expenditure on educational institutions per student	
	for all services (2003)	
Table X2.6a	Reference statistics used in the calculation of	
	teachers' salaries, by level of education (1996, 2004)435	
Table X2.6b	Reference statistics used in the calculation of teachers' salaries	
	(1996, 2003)	
Table X2.6c	Teachers' salaries (2004)	
ANNEX 3 (Sou	urces, Methods and Technical Notes)441	
References		
Contributors	to this Publication	
Related OECE	Publications	



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