

[Part 1/1]

Table 1.2.4a Mean science performance, 2006 through 2015


	PISA 2006		PISA 2009		PISA 2012		PISA 2015		Change between 2006 and 2015 (PISA 2015 - PISA 2006)		Change between 2009 and 2015 (PISA 2015 - PISA 2009)		Change between 2012 and 2015 (PISA 2015 - PISA 2012)		Average 3-year trend in science performance across PISA assessments		
	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	p-value
OECD	Australia	527 (2.3)	527 (2.5)	521 (1.8)	510 (1.5)	-17 (5.2)	-17 (5.4)	-12 (4.6)	-5.7 (1.7)	0.001							
	Austria	511 (3.9)	m	506 (2.7)	495 (2.4)	-16 (6.4)	m	-11 (5.4)	-4.9 (2.2)	0.023							
	Belgium	510 (2.5)	507 (2.5)	505 (2.2)	502 (2.3)	-8 (5.6)	-5 (5.6)	-3 (5.0)	-2.7 (1.8)	0.149							
	Canada	534 (2.0)	529 (1.6)	525 (1.9)	528 (2.1)	-7 (5.3)	-1 (5.2)	2 (4.8)	-2.3 (1.8)	0.188							
	Chile	438 (4.3)	447 (2.9)	445 (2.9)	447 (2.4)	9 (6.7)	-1 (5.9)	2 (5.4)	2.4 (2.1)	0.273							
	Czech Republic	513 (3.5)	500 (3.0)	508 (3.0)	493 (2.3)	-20 (6.1)	-8 (5.9)	-15 (5.4)	-5.2 (2.0)	0.009							
	Denmark	496 (3.1)	499 (2.5)	498 (2.7)	502 (2.4)	6 (5.9)	3 (5.7)	3 (5.3)	1.7 (1.9)	0.386							
	Estonia	531 (2.5)	528 (2.7)	541 (1.9)	534 (2.1)	3 (5.6)	6 (5.6)	-7 (4.9)	2.2 (1.8)	0.223							
	Finland	563 (2.0)	554 (2.3)	545 (2.2)	531 (2.4)	-33 (5.5)	-23 (5.6)	-15 (5.1)	-10.6 (1.8)	0.000							
	France	495 (3.4)	498 (3.6)	499 (2.6)	495 (2.1)	0 (6.0)	-3 (6.1)	-4 (5.1)	0.0 (2.0)	0.987							
	Germany	516 (3.8)	520 (2.8)	524 (3.0)	509 (2.7)	-7 (6.5)	-11 (5.9)	-15 (5.6)	-1.7 (2.1)	0.428							
	Greece	473 (3.2)	470 (4.0)	467 (3.1)	455 (3.9)	-19 (6.8)	-15 (7.2)	-12 (6.4)	-5.9 (2.2)	0.008							
	Hungary	504 (2.7)	503 (3.1)	494 (2.9)	477 (2.4)	-27 (5.8)	-26 (6.0)	-18 (5.5)	-8.9 (1.9)	0.000							
	Iceland	491 (1.6)	496 (1.4)	478 (2.1)	473 (1.7)	-18 (5.1)	-22 (5.0)	-5 (4.8)	-7.0 (1.7)	0.000							
	Ireland	508 (3.2)	508 (3.3)	522 (2.5)	503 (2.4)	-6 (6.0)	-5 (6.1)	-19 (5.2)	-0.4 (2.0)	0.859							
	Israel	454 (3.7)	455 (3.1)	470 (5.0)	467 (3.4)	13 (6.8)	12 (6.5)	-4 (7.2)	5.4 (2.2)	0.016							
	Italy	475 (2.0)	489 (1.8)	494 (1.9)	481 (2.5)	5 (5.5)	-8 (5.5)	-13 (5.0)	2.0 (1.8)	0.255							
	Japan	531 (3.4)	539 (3.4)	547 (3.6)	538 (3.0)	7 (6.3)	-1 (6.4)	-8 (6.1)	2.8 (2.1)	0.176							
	Korea	522 (3.4)	538 (3.4)	538 (3.7)	516 (3.1)	-6 (6.4)	-22 (6.5)	-22 (6.2)	-1.9 (2.1)	0.375							
	Latvia	490 (3.0)	494 (3.1)	502 (2.8)	490 (1.6)	1 (5.6)	-4 (5.7)	-12 (5.0)	1.1 (1.8)	0.533							
	Luxembourg	486 (1.1)	484 (1.2)	491 (1.3)	483 (1.1)	-4 (4.7)	-1 (4.8)	-8 (4.3)	-0.3 (1.6)	0.863							
	Mexico	410 (2.7)	416 (1.8)	415 (1.3)	416 (2.1)	6 (5.7)	0 (5.3)	1 (4.7)	1.7 (1.8)	0.347							
	Netherlands	525 (2.7)	522 (5.4)	522 (3.5)	509 (2.3)	-16 (5.7)	-14 (7.4)	-13 (5.7)	-4.9 (1.9)	0.011							
	New Zealand	530 (2.7)	532 (2.6)	516 (2.1)	513 (2.4)	-17 (5.7)	-19 (5.7)	-2 (5.1)	-6.7 (1.9)	0.000							
	Norway	487 (3.1)	500 (2.6)	495 (3.1)	498 (2.3)	12 (5.9)	-1 (5.7)	4 (5.5)	3.1 (1.9)	0.112							
	Poland	498 (2.3)	508 (2.4)	526 (3.1)	501 (2.5)	4 (5.6)	-7 (5.7)	-24 (5.6)	2.9 (1.9)	0.117							
	Portugal	474 (3.0)	493 (2.9)	489 (3.7)	501 (2.4)	27 (5.9)	8 (5.9)	12 (5.9)	7.6 (1.9)	0.000							
	Slovak Republic	488 (2.6)	490 (3.0)	471 (3.6)	461 (2.6)	-28 (5.8)	-29 (6.0)	-10 (5.9)	-10.2 (1.9)	0.000							
	Slovenia	519 (1.1)	512 (1.1)	514 (1.3)	513 (1.3)	-6 (4.8)	1 (4.8)	-1 (4.3)	-1.5 (1.6)	0.331							
	Spain	488 (2.6)	488 (2.1)	496 (1.8)	493 (2.1)	4 (5.6)	5 (5.4)	-4 (4.8)	2.1 (1.8)	0.237							
	Sweden	503 (2.4)	495 (2.7)	485 (3.0)	493 (3.6)	-10 (6.2)	-2 (6.4)	9 (6.1)	-4.0 (2.0)	0.049							
	Switzerland	512 (3.2)	517 (2.8)	515 (2.7)	506 (2.9)	-6 (6.2)	-11 (6.1)	-10 (5.6)	-2.0 (2.0)	0.327							
	Turkey	424 (3.8)	454 (3.6)	463 (3.9)	425 (3.9)	2 (7.1)	-28 (7.0)	-38 (6.8)	1.5 (2.3)	0.508							
	United Kingdom	515 (2.3)	514 (2.5)	514 (3.4)	509 (2.6)	-6 (5.6)	-4 (5.8)	-5 (5.8)	-1.5 (1.9)	0.426							
United States	489 (4.2)	502 (3.6)	497 (3.8)	496 (3.2)	7 (6.9)	-6 (6.6)	-1 (6.3)	1.8 (2.3)	0.424								
OECD average-34	498 (0.5)	501 (0.5)	501 (0.5)	493 (0.4)	-5 (4.5)	-8 (4.5)	-8 (4.0)	-1.3 (1.5)	0.382								
OECD average-35	498 (0.5)	m	501 (0.5)	493 (0.4)	-5 (4.5)	m	-8 (4.0)	-1.4 (1.5)	0.346								
Partners	Albania	m	m	391 (3.9)	397 (2.4)	427 (3.3)	m	m	37 (6.8)	30 (5.7)	18.3 (3.4)	0.000					
	Algeria	m	m	m	m	376 (2.6)	m	m	m	m	m	m					
	Brazil	390 (2.8)	405 (2.4)	402 (2.1)	401 (2.3)	10 (5.8)	-5 (5.6)	-1 (5.0)	2.7 (1.9)	0.147							
	B-S-J-G (China)	m	m	m	m	518 (4.6)	m	m	m	m	m	m					
	Bulgaria	434 (6.1)	439 (5.9)	446 (4.8)	446 (4.4)	12 (8.7)	6 (8.6)	-1 (7.6)	4.2 (2.8)	0.136							
	CABA (Argentina)	m	m	m	425 (8.6)	475 (6.3)	m	m	51 (11.3)	50.6 (11.3)	0.000						
	Colombia	388 (3.4)	402 (3.6)	399 (3.1)	416 (2.4)	28 (6.1)	14 (6.2)	17 (5.5)	8.0 (2.0)	0.000							
	Costa Rica	m	m	430 (2.8)	429 (2.9)	420 (2.1)	m	-11 (5.7)	-10 (5.3)	-6.7 (3.4)	0.050						
	Croatia	493 (2.4)	486 (2.8)	491 (3.1)	475 (2.5)	-18 (5.7)	-11 (5.9)	-16 (5.6)	-4.8 (1.9)	0.011							
	Cyprus*	m	m	m	438 (1.2)	433 (1.4)	m	m	m	-5 (4.3)	-5.1 (4.3)	0.240					
	Dominican Republic	m	m	m	m	332 (2.6)	m	m	m	m	m	m					
	FYROM	m	m	m	m	384 (1.2)	m	m	m	m	m	m					
	Georgia	m	m	373 (2.9)	m	411 (2.4)	m	38 (5.9)	m	23.1 (3.5)	0.000						
	Hong Kong (China)	542 (2.5)	549 (2.8)	555 (2.6)	523 (2.5)	-19 (5.7)	-26 (5.9)	-32 (5.4)	-5.2 (1.9)	0.006							
	Indonesia	393 (5.7)	383 (3.8)	382 (3.8)	403 (2.6)	10 (7.7)	21 (6.4)	21 (6.0)	2.8 (2.5)	0.254							
	Jordan	422 (2.8)	415 (3.5)	409 (3.1)	409 (2.7)	-13 (5.9)	-7 (6.3)	-1 (5.7)	-4.6 (2.0)	0.018							
	Kosovo	m	m	m	m	378 (1.7)	m	m	m	m	m	m					
	Lebanon	m	m	m	m	386 (3.4)	m	m	m	m	m	m					
	Lithuania	488 (2.8)	491 (2.9)	496 (2.6)	475 (2.7)	-13 (5.9)	-16 (6.0)	-20 (5.4)	-3.2 (1.9)	0.093							
	Macao (China)	511 (1.1)	511 (1.0)	521 (0.8)	529 (1.1)	18 (4.7)	17 (4.7)	8 (4.2)	6.3 (1.6)	0.000							
	Malta	m	m	461 (1.7)	m	465 (1.6)	m	3 (5.1)	m	2.1 (3.1)	0.499						
	Moldova	m	m	413 (3.0)	m	428 (2.0)	m	15 (5.8)	m	9.1 (3.5)	0.008						
	Montenegro	412 (1.1)	401 (2.0)	410 (1.1)	411 (1.0)	0 (4.7)	10 (5.0)	1 (4.2)	0.7 (1.6)	0.638							
	Peru	m	m	369 (3.5)	373 (3.6)	397 (2.4)	m	27 (6.2)	24 (5.8)	13.7 (3.0)	0.000						
	Qatar	349 (0.9)	379 (0.9)	384 (0.7)	418 (1.0)	68 (4.7)	38 (4.7)	34 (4.1)	20.9 (1.6)	0.000							
	Romania	418 (4.2)	428 (3.4)	439 (3.3)	435 (3.2)	16 (6.9)	7 (6.5)	-4 (6.0)	6.0 (2.2)	0.007							
	Russia	479 (3.7)	478 (3.3)	486 (2.9)	487 (2.9)	7 (6.5)	8 (6.3)	0 (5.7)	2.9 (2.1)	0.162							
	Singapore	m	m	542 (1.4)	551 (1.5)	556 (1.2)	m	14 (4.9)	4 (4.4)	6.9 (2.4)	0.004						
	Chinese Taipei	532 (3.6)	520 (2.6)	523 (2.3)	532 (2.7)	0 (6.3)	12 (5.9)	9 (5.3)	0.2 (2.0)	0.912							
	Thailand	421 (2.1)	425 (3.0)	444 (2.9)	421 (2.8)	0 (5.7)	-4 (6.1)	-23 (5.7)	2.1 (1.9)	0.270							
	Trinidad and Tobago	m	m	410 (1.2)	m	425 (1.4)	m	14 (4.9)	m	7.2 (2.4)	0.003						
Tunisia	386 (3.0)	401 (2.7)	398 (3.5)	386 (2.1)	1 (5.8)	-14 (5.6)	-12 (5.6)	0.0 (1.9)	0.992								
United Arab Emirates	m	m	m	448 (2.8)	437 (2.4)	m	m	-12 (5.4)	-11.6 (5.4)	0.031							
Uruguay	428 (2.7)	427 (2.6)	416 (2.8)	435 (2.2)	7 (5.7)	8 (5.6)	20 (5.3)	1.0 (1.9)	0.580								
Viet Nam	m	m	m	528 (4.3)	525 (3.9)	m	m	-4 (7.0)	-3.8 (7.0)	0.590							
Argentina**	391 (6.1)	401 (4.6)	406 (3.9)	432 (2.9)	41 (8.1)	31 (7.0)	27 (6.2)	12.7 (2.6)	0.000								
Kazakhstan**	m	m	400 (3.1)	425 (3.0)	456 (3.7)	m	56 (6.6)	32 (6.1)	28.0 (3.3)	0.000							
Malaysia**	m	m	422 (2.7)	420 (3.0)	443 (3.0)	m	21 (6.0)	23 (5.8)	13.3 (3.6)	0.000							

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

For Costa Rica, Georgia, Malta and Moldova, the change between the PISA 2009 and PISA 2015 represents change between 2010 and 2015 because these countries implemented the PISA 2009 assessment in 2010 as part of PISA 2009+.

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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