

Background of PISA 2022

The Programme for International Student Assessment (PISA) 2022 was conducted under the auspices of the Organisation for Economic Co-operation and Development (OECD), with 81 countries or economies participating in the study. It aims to assess the mathematical, scientific and mother tongue reading literacy of 15-year-old students, collect data on factors that affect their learning, and compare the effectiveness of the education system in participating countries or economies.

Since 2000, PISA has been conducted in three-year cycles. Due to the COVID-19 pandemic, the eighth cycle of PISA was postponed to 2022. The EDB commissioned the Chinese University of Hong Kong to conduct the main study in Hong Kong from May to July 2022. A total of 5 907 students aged 15 from 163 secondary schools participated in the study.

Ranking of Students' Mathematical Literacy

Mathematical Literacy			
PISA 2022		PISA 2018	
Country/Economy	Mean Score	Country/Economy	Mean Score
Singapore	575	China (B-S-J-Z) (Note)	591
Macao-China	552	Singapore	569
Chinese Taipei	547	Macao-China	558
Hong Kong-China	540	Hong Kong-China	551
Japan	536	Chinese Taipei	531
Korea	527	Japan	527
Estonia	510	Korea	526
Switzerland	508	Estonia	523
Canada	497	Netherlands	519
Netherlands	493	Poland	516
Ireland	492	Switzerland	515
Belgium	489	Canada	512
Denmark	489	Denmark	509
United Kingdom	489	Slovenia	509
Poland	489	Belgium	508
Austria	487	Finland	507
Australia	487	Sweden	502
Czech Republic	487	United Kingdom	502
Slovenia	485	Norway	501
Finland	484	Germany	500
Latvia	483	Ireland	500
Sweden	482	Czech Republic	499
New Zealand	479	Austria	499
Lithuania	475	Latvia	496
Germany	475	France	495
France	474	Iceland	495
Spain	473	New Zealand	494
Hungary	473	Portugal	492
OECD Average	472	Australia	491
Portugal	472	OECD Average	489
Italy	471	Russia	488
Viet Nam	469	Italy	487
Norway	468	Slovak Republic	486
Malta	466	Luxembourg	483
United States	465	Spain	481

Mathematical Literacy			
PISA 2022		PISA 2018	
Country/Economy	Mean Score	Country/Economy	Mean Score
Slovak Republic	464	Lithuania	481
Croatia	463	Hungary	481
Iceland	459	United States	478
Israel	458	Belarus	472
Türkiye	453	Malta	472
Brunei Darussalam	442	Croatia	464
Ukrainian regions	441	Israel	463
Serbia	440	Türkiye	454
United Arab Emirates	431	Ukraine	453
Greece	430	Greece	451
Romania	428	Cyprus	451
Kazakhstan	425	Serbia	448
Mongolia	425	Malaysia	440
Cyprus	418	Albania	437
Bulgaria	417	Bulgaria	436
Moldova	414	United Arab Emirates	435
Qatar	414	Brunei Darussalam	430
Chile	412	Romania	430
Uruguay	409	Montenegro	430
Malaysia	409	Kazakhstan	423
Montenegro	406	Moldova	421
Baku (Azerbaijan)	397	Baku (Azerbaijan)	420
Mexico	395	Thailand	419
Thailand	394	Uruguay	418
Peru	391	Chile	417
Georgia	390	Qatar	414
Saudi Arabia	389	Mexico	409
North Macedonia	389	Bosnia and Herzegovina	406
Costa Rica	385	Costa Rica	402
Colombia	383	Peru	400
Brazil	379	Jordan	400
Argentina	378	Georgia	398
Jamaica	377	North Macedonia	394
Albania	368	Lebanon	393
Palestinian Authority	366	Colombia	391
Indonesia	366	Brazil	384
Morocco	365	Argentina	379

Mathematical Literacy			
PISA 2022		PISA 2018	
Country/Economy	Mean Score	Country/Economy	Mean Score
Uzbekistan	364	Indonesia	379
Jordan	361	Saudi Arabia	373
Panama	357	Morocco	368
Kosovo	355	Kosovo	366
Philippines	355	Panama	353
Guatemala	344	Philippines	353
El Salvador	343	Dominican Republic	325
Dominican Republic	339	Viet Nam	/
Paraguay	338		
Cambodia	336		

Note: The four participating regions of Mainland China are Beijing, Shanghai, Jiangsu, and Zhejiang.

Ranking of Students' Scientific Literacy

Scientific Literacy			
PISA 2022		PISA 2018	
Country/Economy	Mean Score	Country/Economy	Mean Score
Singapore	561	China (B-S-J-Z) (Note)	590
Japan	547	Singapore	551
Macao-China	543	Macao-China	544
Chinese Taipei	537	Estonia	530
Korea	528	Japan	529
Estonia	526	Finland	522
Hong Kong-China	520	Korea	519
Canada	515	Canada	518
Finland	511	Hong Kong-China	517
Australia	507	Chinese Taipei	516
New Zealand	504	Poland	511
Ireland	504	New Zealand	508
Switzerland	503	Slovenia	507
Slovenia	500	United Kingdom	505
United Kingdom	500	Netherlands	503
United States	499	Germany	503
Poland	499	Australia	503
Czech Republic	498	United States	502
Latvia	494	Sweden	499
Denmark	494	Belgium	499
Sweden	494	Czech Republic	497
Germany	492	Ireland	496
Austria	491	Switzerland	495
Belgium	491	France	493
Netherlands	488	Denmark	493
France	487	Portugal	492
Hungary	486	Norway	490
OECD Average	485	Austria	490
Spain	485	OECD Average	489
Lithuania	484	Latvia	487
Portugal	484	Spain	483
Croatia	483	Lithuania	482
Norway	478	Hungary	481
Italy	477	Russia	478
Türkiye	476	Luxembourg	477

Scientific Literacy			
PISA 2022		PISA 2018	
Country/Economy	Mean Score	Country/Economy	Mean Score
Viet Nam	472	Iceland	475
Malta	466	Croatia	472
Israel	465	Belarus	471
Slovak Republic	462	Ukraine	469
Ukrainian regions	450	Türkiye	468
Serbia	447	Italy	468
Iceland	447	Slovak Republic	464
Brunei Darussalam	446	Israel	462
Chile	444	Malta	457
Greece	441	Greece	452
Uruguay	435	Chile	444
Qatar	432	Serbia	440
United Arab Emirates	432	Cyprus	439
Romania	428	Malaysia	438
Kazakhstan	423	United Arab Emirates	434
Bulgaria	421	Brunei Darussalam	431
Moldova	417	Jordan	429
Malaysia	416	Moldova	428
Mongolia	412	Thailand	426
Colombia	411	Uruguay	426
Costa Rica	411	Romania	426
Cyprus	411	Bulgaria	424
Mexico	410	Mexico	419
Thailand	409	Qatar	419
Peru	408	Albania	417
Argentina	406	Costa Rica	416
Montenegro	403	Montenegro	415
Brazil	403	Colombia	413
Jamaica	403	North Macedonia	413
Saudi Arabia	390	Peru	404
Panama	388	Argentina	404
Georgia	384	Brazil	404
Indonesia	383	Bosnia and Herzegovina	398
Baku (Azerbaijan)	380	Baku (Azerbaijan)	398
North Macedonia	380	Kazakhstan	397
Albania	376	Indonesia	396
Jordan	375	Saudi Arabia	386

Scientific Literacy			
PISA 2022		PISA 2018	
Country/Economy	Mean Score	Country/Economy	Mean Score
El Salvador	373	Lebanon	384
Guatemala	373	Georgia	383
Palestinian Authority	369	Morocco	377
Paraguay	368	Kosovo	365
Morocco	365	Panama	365
Dominican Republic	360	Philippines	357
Kosovo	357	Dominican Republic	336
Philippines	356	Viet Nam	/
Uzbekistan	355		
Cambodia	347		

Note: The four participating regions of Mainland China are Beijing, Shanghai, Jiangsu, and Zhejiang.

Ranking of Students' Reading Literacy

Reading Literacy			
PISA 2022		PISA 2018	
Country/Economy	Mean Score	Country/Economy	Mean Score
Singapore	543	China (B-S-J-Z) (Note)	555
Ireland	516	Singapore	549
Japan	516	Macao-China	525
Korea	515	Hong Kong-China	524
Chinese Taipei	515	Estonia	523
Estonia	511	Canada	520
Macao-China	510	Finland	520
Canada	507	Ireland	518
United States	504	Korea	514
New Zealand	501	Poland	512
Hong Kong-China	500	Sweden	506
Australia	498	New Zealand	506
United Kingdom	494	United States	505
Finland	490	United Kingdom	504
Denmark	489	Japan	504
Poland	489	Australia	503
Czech Republic	489	Chinese Taipei	503
Sweden	487	Denmark	501
Switzerland	483	Norway	499
Italy	482	Germany	498
Austria	480	Slovenia	495
Germany	480	Belgium	493
Belgium	479	France	493
Portugal	477	Portugal	492
Norway	477	Czech Republic	490
OECD Average	476	OECD Average	487
Croatia	475	Netherlands	485
Latvia	475	Austria	484
Spain	474	Switzerland	484
France	474	Croatia	479
Israel	474	Latvia	479
Hungary	473	Russia	479
Lithuania	472	Italy	476
Slovenia	469	Hungary	476
Viet Nam	462	Lithuania	476

Reading Literacy			
PISA 2022		PISA 2018	
Country/Economy	Mean Score	Country/Economy	Mean Score
Netherlands	459	Iceland	474
Türkiye	456	Belarus	474
Chile	448	Israel	470
Slovak Republic	447	Luxembourg	470
Malta	445	Ukraine	466
Serbia	440	Türkiye	466
Greece	438	Slovak Republic	458
Iceland	436	Greece	457
Uruguay	430	Chile	452
Brunei Darussalam	429	Malta	448
Romania	428	Serbia	439
Ukrainian regions	428	United Arab Emirates	432
Qatar	419	Romania	428
United Arab Emirates	417	Uruguay	427
Mexico	415	Costa Rica	426
Costa Rica	415	Cyprus	424
Moldova	411	Moldova	424
Brazil	410	Montenegro	421
Jamaica	410	Mexico	420
Colombia	409	Bulgaria	420
Peru	408	Jordan	419
Montenegro	405	Malaysia	415
Bulgaria	404	Brazil	413
Argentina	401	Colombia	412
Panama	392	Brunei Darussalam	408
Malaysia	388	Qatar	407
Kazakhstan	386	Albania	405
Saudi Arabia	383	Bosnia and Herzegovina	403
Cyprus	381	Argentina	402
Thailand	379	Peru	401
Mongolia	378	Saudi Arabia	399
Guatemala	374	Thailand	393
Georgia	374	North Macedonia	393
Paraguay	373	Baku (Azerbaijan)	389
Baku (Azerbaijan)	365	Kazakhstan	387
El Salvador	365	Georgia	380

Reading Literacy			
PISA 2022		PISA 2018	
Country/Economy	Mean Score	Country/Economy	Mean Score
Indonesia	359	Panama	377
North Macedonia	359	Indonesia	371
Albania	358	Morocco	359
Dominican Republic	351	Lebanon	353
Palestinian Authority	349	Kosovo	353
Philippines	347	Dominican Republic	342
Kosovo	342	Philippines	340
Jordan	342	Spain	/
Morocco	339	Viet Nam	/
Uzbekistan	336		
Cambodia	329		

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