PISA 2009: Student performance at age 15 and ECEC

8th Meeting of the OECD Network on Early Childhood Education and Care
Paris, 6-7 December 2010
Average performance in reading
OECD countries = 493

PISA 2009 Results, Table I.2.3
Average performance in reading
OECD countries = 493

OECD average 493
Portugal 489
Italy 486
Slovenia 483
Greece 483
Spain 481
Czech Republic 478
Slovak Republic 477
Israel 474
Luxembourg 472
Austria 470
Turkey 464
Chile 449
Mexico 425

PISA 2009 Results, Table I.2.3
Average performance in reading
Some partner countries and economies – Korea, France, Mexico

Shanghai-China 556
Korea 539
Hong Kong-China 533
Singapore 526
France 496
Chinese Taipei 495
OECD average 493
Macao-China 487
Russian Federation 459
Mexico 425
Romania 424
Thailand 421
Brazil 412

PISA 2009 Results, Table I.2.3
Average performance in mathematics
OECD average = 496

OECD average 496
Poland 495
Sweden 494
Czech Republic 493
United Kingdom 492
Hungary 490
Luxembourg 489
United States 487
Ireland 487
Portugal 487
Spain 483
Italy 483
Greece 466
Israel 447
Turkey 445
Chile 421
Mexico 419
### Average performance in science

OECD average = 501

<table>
<thead>
<tr>
<th>Country</th>
<th>Average Performance</th>
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<tbody>
<tr>
<td>Shanghai-China</td>
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<td>Finland</td>
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<td>Hong Kong-China</td>
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<tr>
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<td>Japan</td>
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Average performance in science
OECD average = 501

OECD average 501
Czech Republic 500
Norway 500
Denmark 499
France 498
Iceland 496
Sweden 495
Austria 494
Portugal 493
Slovak Republic 490
Italy 489
Spain 488
Luxembourg 484
Greece 470
Israel 455
Turkey 454
Chile 447
Mexico 416
Participation in pre-primary education

- On average across OECD countries, 72% of PISA students reported more than one year of pre-primary education.
- More than one year is practically universal in Japan, Netherlands, Hungary, Belgium, Iceland and France— but less than 50% of students in Chile, Ireland, Canada and Poland.
- More than 90% of students in 27 OECD countries attended for at least some time— but less than 30% in Turkey.
Relationship between PISA and pre-primary education

- In all OECD countries, students who attended pre-primary education for more than one year outperformed students who did not.
- This finding remains unchanged after socio-economic background is accounted for.
- Average advantage across OECD countries:
  - before accounting for socio-economic factors: 54 score points
  - after accounting for socio-economic factors: 33 score points
Participation in pre-primary education for more than one year

Observed performance advantage

Performance advantage after accounting for socio-economic factors

Source: PISA 2009