

Table V.1. Snapshot of learning strategies

	Percentage of students reporting:							
	Controlling one's own learning			Critical thinking (perspective-taking)		Proactive learning	Cognitive activation	
	More than half of the time, students...	Students agree or strongly agree...		Students agree or strongly agree...	Students disagree or strongly disagree...	More than half of the time, students...	More than half of the lessons...	
	...ask questions when they do not understand the mathematics material	...they like to make sure there are no mistakes	...they carefully check homework before turning it in	...they try to consider everybody's perspective before they take a position	...there is only one correct position in a disagreement	...try to connect new material to what they have learned in previous mathematics lessons	...the teacher asks students to explain their reasoning when solving a mathematics problem	...the teacher asks students to think about how new and old mathematics topics are related
	%	%	%	%	%	%	%	%
OECD average	46.8	64.2	44.3	58.9	45.8	45.6	46.1	31.2
Iceland	61.6	63.2	46.7	42.9	36.7	48.4	28.3	20.6
Albania	59.3	74.8	67.7	55.0	21.8	60.8	53.4	47.5
Uzbekistan	59.1	75.8	76.5	73.0	22.2	58.7	48.3	49.5
Costa Rica	57.2	77.0	74.0	66.6	25.0	52.5	41.0	34.7
Israel	57.2	m	m	m	m	50.1	48.6	33.1
Denmark*	56.6	58.5	42.8	56.9	50.2	42.8	39.5	21.1
Guatemala	55.5	74.6	74.7	m	m	58.0	44.9	49.0
Sweden	55.1	m	m	m	m	48.6	52.3	26.2
United Arab Emirates	54.7	70.9	65.6	64.1	30.2	53.0	51.1	40.6
Canada*	54.6	62.1	45.5	62.0	48.1	53.8	55.4	35.3
Paraguay	54.6	73.3	70.9	m	m	48.0	31.7	35.3
Singapore	54.6	64.0	42.5	72.3	56.6	48.8	51.4	43.8
Australia*	54.4	57.3	36.1	61.5	44.4	49.7	54.6	32.7
Colombia	53.0	72.4	70.4	69.7	27.4	55.6	46.5	46.5
United States*	52.5	m	m	m	m	53.2	56.0	33.7
Dominican Republic	52.4	71.6	70.8	65.9	28.4	51.3	48.4	47.4
Uruguay	52.2	63.5	55.7	56.9	36.1	49.6	46.3	34.3
Kazakhstan	52.0	63.6	60.2	56.2	40.5	54.2	51.6	42.9
Austria	51.7	59.0	38.5	56.1	57.1	53.0	48.2	32.2
New Zealand*	51.5	52.4	45.4	56.7	43.5	42.1	53.1	24.0
Switzerland	50.7	60.5	34.6	57.6	52.8	45.9	48.3	32.4
Jamaica*	50.6	70.1	64.3	61.9	34.0	47.8	54.4	41.4
Chile	50.6	69.4	59.1	62.9	29.3	53.1	45.8	41.1
Spain	50.3	70.4	42.8	56.3	46.7	46.8	46.4	28.0
Germany	50.3	62.3	37.3	57.8	55.1	47.4	54.2	36.2
Qatar	50.1	65.0	54.6	57.5	29.2	50.4	46.8	39.9
Panama*	49.8	70.5	72.4	68.5	24.5	57.5	45.9	44.9
El Salvador	49.8	70.1	71.8	66.0	25.1	52.0	40.2	43.1
United Kingdom*	49.4	55.7	32.9	53.0	42.4	44.9	59.6	34.7
Netherlands*	49.0	65.5	27.4	42.7	51.9	39.9	41.6	18.7
Malta	48.2	59.7	36.8	62.3	40.0	49.6	56.3	30.9
Ireland*	48.2	56.2	36.3	58.4	57.8	46.0	57.0	30.1
Georgia	47.4	66.9	55.2	56.3	37.3	50.2	54.3	41.0
Italy	47.2	70.6	48.0	59.4	37.3	39.9	57.3	32.7
Belgium	46.7	64.1	41.7	52.8	52.3	38.5	46.3	28.2
Norway	46.6	m	m	m	m	43.2	52.3	28.8
Mongolia	46.6	86.9	52.2	74.7	28.6	43.0	33.6	38.4
North Macedonia	46.6	69.4	55.1	56.0	26.2	51.4	41.5	35.9
Peru	46.4	71.0	71.6	71.1	25.7	54.2	53.9	52.3
Indonesia	46.4	85.2	77.2	55.8	18.3	42.3	34.3	35.2
Portugal	46.1	72.1	49.4	80.1	65.2	48.5	55.9	41.0
Jordan	45.5	67.2	61.1	43.5	23.3	48.9	26.8	31.0
Morocco	45.4	71.6	66.4	61.3	29.8	41.1	34.3	34.0

Table V.1. Snapshot of learning strategies [2/2]

	<div><div></div> Countries/economies with values above the OECD average</div> <div><div></div> Countries/economies with values not significantly different from the OECD average</div> <div><div></div> Countries/economies with values below the OECD average</div>							
	Percentage of students reporting:							
	Controlling one's own learning			Critical thinking (perspective-taking)		Proactive learning	Cognitive activation	
	More than half of the time, students...	Students agree or strongly agree...		Students agree or strongly agree...	Students disagree or strongly disagree...	More than half of the time, students...	More than half of the lessons...	
	...ask questions when they do not understand the mathematics material	...they like to make sure there are no mistakes	...they carefully check homework before turning it in	...they try to consider everybody's perspective before they take a position	...there is only one correct position in a disagreement	...try to connect new material to what they have learned in previous mathematics lessons	...the teacher asks students to explain their reasoning when solving a mathematics problem	...the teacher asks students to think about how new and old mathematics topics are related
	%	%	%	%	%	%	%	%
OECD average	46.8	64.2	44.3	58.9	45.8	45.6	46.1	31.2
Moldova	45.0	70.8	54.7	58.9	31.5	46.1	33.3	33.9
Saudi Arabia	45.0	78.4	71.9	66.6	23.6	45.2	37.1	33.2
Lithuania	44.9	55.1	40.9	52.5	34.1	46.5	34.9	34.6
Greece	44.1	70.3	52.3	63.8	55.7	49.3	53.3	23.9
Argentina	43.1	62.0	59.6	53.2	30.7	39.7	41.9	37.4
Türkiye	43.0	66.4	69.8	75.2	47.4	49.2	39.6	29.7
Latvia*	42.8	59.0	28.9	53.9	49.8	43.2	43.5	33.9
Slovak Republic	42.7	67.9	49.2	57.4	54.0	44.4	39.6	34.6
Hungary	42.7	54.5	34.2	62.2	48.6	43.2	49.4	27.6
Bulgaria	41.7	62.1	43.4	63.9	40.8	47.3	46.6	44.5
Malaysia	41.7	66.4	63.6	56.0	25.7	35.6	30.8	32.5
Mexico	41.2	68.0	65.5	70.4	22.4	51.3	48.0	44.6
Serbia	41.1	68.3	45.0	60.7	30.3	47.8	36.4	36.2
Viet Nam	40.5	77.0	74.6	m	m	59.2	42.2	48.1
Estonia	40.3	53.4	36.0	63.5	49.0	41.4	38.7	24.5
France	39.7	65.8	50.0	63.9	47.8	36.1	54.9	36.4
Finland	39.7	59.6	23.9	48.5	53.8	41.2	34.9	20.4
Brazil	39.6	69.9	59.1	62.1	38.9	41.5	36.0	33.4
Montenegro	39.4	64.7	51.4	55.0	26.5	48.7	34.1	36.8
Philippines	39.4	60.8	71.7	62.3	24.6	39.4	46.5	40.8
Cambodia	39.4	67.1	78.5	m	m	32.8	37.4	43.2
Brunei Darussalam	39.1	61.9	52.9	56.7	21.4	36.2	43.6	31.8
Japan	37.7	m	m	m	m	27.2	51.8	42.8
Croatia	37.7	50.5	38.1	57.4	32.0	47.6	34.2	38.2
Czechia	36.7	62.4	35.4	48.9	43.4	42.9	37.4	26.9
Romania	35.8	70.2	43.6	59.3	30.4	45.8	35.5	36.7
Slovenia	35.1	60.6	30.5	58.0	44.5	47.4	34.5	30.4
Korea	33.8	89.6	58.9	68.7	45.5	43.0	25.5	24.6
Thailand	29.8	72.9	63.8	65.0	19.4	31.9	29.1	27.7
Poland	26.8	72.6	34.0	43.6	46.5	35.9	32.3	28.6
Baku (Azerbaijan)	56.2	64.6	52.1	50.5	28.1	57.8	51.6	49.0
Cyprus	49.1	60.0	39.0	55.3	46.9	49.3	50.4	33.4
Kosovo	47.4	75.8	66.5	43.6	26.0	50.8	38.1	36.5
Palestinian Authority	43.0	72.2	64.6	49.1	22.5	47.7	31.2	37.9
Ukrainian regions (18 of 27)	36.4	59.5	40.9	56.0	34.7	39.5	45.7	41.9
Hong Kong (China)*	34.9	52.1	37.0	64.1	41.6	35.5	39.0	32.9
Macao (China)	31.0	50.2	40.0	64.9	42.5	31.1	40.7	33.0
Chinese Taipei	23.5	62.2	38.0	65.9	49.5	29.5	30.7	27.1

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Countries and economies are ranked in descending order of the percentage of students who "asked questions when they did not understand the mathematics material" more than half of the time.

Source: OECD, PISA 2022 Database, Tables V.B1.2.2, V.B1.2.4, V.B1.2.6, V.B1.2.10, V.B1.2.14, V.B1.2.21, V.B1.3.24 and V.B1.3.26.

The StatLink URL of this table is available below Snapshot Table V.7.