

Exhibit P4.5: Intended Areas of Study for Students Planning to Continue Their Education

Reported by Physics Students

Students could indicate more than one area of study.

Country	Physics		Mathematics or Statistics		Engineering and Engineering Technologies		Computer and Information Sciences		Chemistry	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
France	15 (0.7)	442 (5.3)	16 (0.7)	429 (5.6)	23 (0.8)	420 (5.2)	12 (0.7)	396 (7.9)	12 (0.6)	407 (6.6)
Italy	6 (0.4)	491 (12.7)	7 (0.5)	411 (15.2)	23 (0.8)	438 (8.1)	6 (0.5)	410 (13.4)	7 (0.5)	414 (11.5)
Lebanon	17 (1.1)	427 (9.3)	24 (1.3)	398 (8.5)	71 (1.8)	422 (5.5)	13 (1.3)	416 (10.3)	6 (1.1)	392 (18.5)
Norway	41 (1.0)	550 (4.5)	36 (1.2)	531 (5.1)	73 (1.0)	521 (4.2)	26 (1.1)	524 (5.6)	12 (0.7)	552 (7.2)
Portugal	23 (1.4)	520 (6.1)	17 (1.2)	505 (6.6)	64 (1.9)	476 (5.3)	24 (1.5)	475 (6.9)	5 (0.6)	484 (12.6)
Russian Federation	40 (1.5)	546 (7.5)	33 (1.3)	535 (8.0)	40 (1.4)	534 (7.2)	27 (1.2)	541 (7.9)	9 (0.7)	534 (10.1)
Slovenia	18 (1.3)	556 (7.9)	14 (1.0)	529 (7.8)	42 (1.5)	529 (4.3)	15 (1.1)	544 (6.8)	9 (1.0)	554 (10.7)
Sweden	15 (0.8)	527 (7.0)	19 (0.8)	499 (7.7)	54 (1.2)	477 (6.4)	19 (0.9)	442 (8.4)	13 (0.8)	477 (7.9)
United States	23 (1.7)	496 (9.4)	31 (2.1)	469 (9.6)	42 (1.9)	472 (8.0)	23 (1.7)	464 (10.8)	15 (1.0)	478 (12.8)
International Avg.	22 (0.4)	506 (2.7)	22 (0.4)	478 (2.9)	48 (0.5)	477 (2.1)	18 (0.4)	468 (3.0)	10 (0.3)	477 (3.8)

Country	Biological and Biomedical Sciences		Education		Business		Other	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
France	40 (0.9)	360 (3.9)	6 (0.5)	350 (10.2)	13 (0.6)	356 (5.9)	30 (0.8)	357 (4.0)
Italy	37 (1.1)	380 (8.1)	10 (0.6)	357 (12.5)	15 (0.8)	356 (9.1)	39 (1.2)	355 (7.6)
Lebanon	7 (0.9)	413 (14.6)	3 (0.5)	375 (23.0)	6 (1.2)	397 (19.6)	15 (1.2)	412 (8.3)
Norway	17 (1.0)	504 (7.3)	11 (0.7)	490 (9.3)	22 (0.8)	488 (6.7)	34 (1.1)	501 (5.4)
Portugal	14 (1.5)	478 (8.1)	1 (0.2)	~ ~	9 (0.8)	446 (8.1)	16 (1.4)	442 (8.6)
Russian Federation	12 (0.9)	491 (10.6)	8 (0.6)	482 (13.5)	25 (0.9)	508 (11.8)	42 (1.3)	492 (9.0)
Slovenia	21 (1.2)	552 (6.9)	5 (0.6)	498 (11.9)	4 (0.6)	467 (14.5)	17 (1.4)	494 (8.0)
Sweden	36 (1.1)	456 (6.3)	10 (0.6)	447 (7.9)	16 (0.8)	463 (7.3)	33 (1.1)	445 (7.3)
United States	29 (1.7)	417 (13.0)	6 (0.9)	407 (19.4)	24 (1.5)	417 (13.4)	37 (1.9)	425 (13.5)
International Avg.	24 (0.4)	450 (3.1)	7 (0.2)	426 (5.1)	15 (0.3)	433 (3.8)	29 (0.4)	436 (2.8)

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent. A tilde (~) indicates insufficient data to report achievement.

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS Advanced 2015

