Schola Europaea

European Baccalaureate Unit
Office of the Secretary-General

Ref. : 2021-07-D-1-en-5

Orig.: EN

Report on European Baccalaureate 2021

Approved by the Board of Governors of the European Schools

On its meeting of 8th, 9th and 10th December 2021 – Online

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1. Abbreviations

SUBJECTS			
ART:	Artistic Education	ar4 - Art (4 hours)	WR
BIO:	Biology	bi2 - Biology (2 hours option)	OR
		bi4 - Biology (4 hours option)	WR or OR
CHI:	Chemistry	chi - Chemistry	WR or OR
ECO:	Economics	eco - Economics	WR
GEO:	Geography	ge2 - Geography (2 hours option)	OR
		ge4 - Geography (4 hours option)	WR or OR
GRE ANC.:	Ancient Greek	gre - Ancient Greek	WR
HI:	History	hi2 - History (2 hours option)	OR
		hi4 - History (4 hours option)	WR or OR
L (1):	Language Basic course	L1 - Language I	WR and OR
		L2 - Language II	WR and/or OR
		L3 - Language III	WR or OR
		L4 - Language IV	WR or OR
(L 1) A:	Language Advanced course	L1a - Language I Advanced	WR and OR
		L2a - Language II Advanced	WR and/or OR
LAT:	Latin	lat - Latin	WR
MATH:	Mathematics	ma3 - Math (3 hour option)	WR
		ma5 - Math (5 hour option)	WR
		maa - Math Advanced	OR
MUS:	Musical Education	mu4 - Music (4 hour option)	WR
ONL:	Other National Language	onl - Other National Language	WR or OR
PH:	Philosophy	ph2 - Philosophy (2 hour option)	OR
		ph4 - Philosophy (4 hour option)	WR or OR
PHY:	Physics	phy - Physics	WR or OR

LANGUAGES		
1	BG	Bulgarian
2	CS	Czech
3	DE	German
4	DA	Danish
5	EL	Greek
6	EN	English
7	ES	Spanish
8	ET	Estonian
9	FI	Finnish
10	FR	French
11	GA	Gaelic
12	HR	Croatian
13	HU	Hungarian
14	IT	Italian
15	LT	Lithuanian
16	LV	Latvian
17	MT	Maltese
18	NL	Dutch
19	PL	Polish
20	PT	Portuguese
21	RO	Romanian
22	SK	Slovak
23	SL	Slovene
24	SV	Swedish

SCHOOLS			
Accredited European Schools		**European Schools**	
*BRI	Liceo scientifico “Fermi Monticelli” Brindisi	ALI	Alicante
*CUL	Europa School UK	BER	Bergen
*DHG	Europese School Den Haag	BR 1 / UCC	Bruxelles 1 – Uccle
*HEL	European Schooling Helsinki	BR 2 / WOL	Bruxelles 2 – Woluwe-Saint-Pierre
*HER	School of European Education Heraklion	BR 3 / IXL	Bruxelles 3 – Ixelles
*MAN	École internationale de Manosque	BR 4 / LAE	Bruxelles 4 – Laeken
*PAR	Scuola per l'Europa di Parma	FRF	Frankfurt
*RHM	Europäische Schule RheinMain	KAR	Karlsruhe
*STR	École européenne de Strasbourg	LUX 1 / LUX	Luxembourg 1 – Luxembourg
*TAL	Tallinna Euroopa Kool	LUX 2 / MAM	Luxembourg 2 – Mamer
		MOL	Mol
		MUN	Munich
		VAR	Varese

OTHER	
EB	European Baccalaureate

2. Introduction

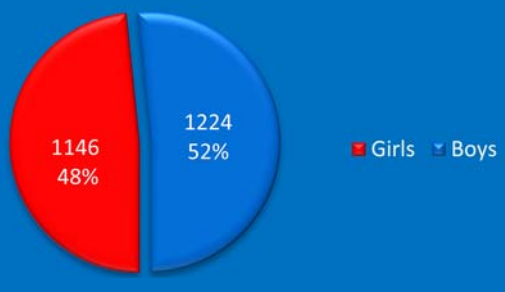
62ND EUROPEAN BACCAULAUREATE 2021 SESSION

To reach the on-line report, please follow the link below or scan the QR code. The report can also be downloaded on PDF, and visualized on any computer or mobile device.

http://schola-europaea.eu/bacc/report/2021

At first glance…

Initial candidates registration	2389
Withdrawals during the year	19
Candidates who participated	**2370**
Awarded diplomas	2359
Number of failures	11
Success rate	**99.54%**
Fail rate	**0.46%**
Overall Preliminary mark	**80.44**
Overall Written mark	**72.83**
Overall final mark	**78.19**



Gender	Final mark
Girls	80,44
Boys	76,09

The **62nd session of the European Baccalaureate** was chaired by **Prof. Marie-Danièle CAMPION**, European Baccalaureate President, from France.

2371 candidates, from 13 European Schools and 10 Accredited Schools, registered for the European Baccalaureate 2021 session.

Unfortunately, due to BREXIT, this year, it has been the last BACC session for the Europa School UK (CUL). It has been a pleasure to have them among us all these years in the European Schools' system and we wish the Europa School UK the best for the future.

As in previous years, the European Baccalaureate Report offers an additional opportunity to discover more results about the EB 2021 session. The EB Unit is now able to disclose more details on the 2021 European Baccalaureate, with a Business Intelligence tool.

To read the on-line report, please follow the link on the left side of the page or scan the QR code. The report can also be downloaded on PDF, and visualized on any computer or mobile device.

Along with this dynamic document, the readers will be able to find information about the development of the European Baccalaureate 2021 session, and to build their own graphs. At the end of the on-line report, a table presents all available dynamic graphs. To access the graphs, simply click on the blinking icons that appear on the screen. A pop-up screen will open, giving the possibility to get all accurate data needed in an easy way, to filter by school, subject, languages, gender and/or averages, to compare among schools, subjects.

Please note that, although these interactive graphs share the same source data with the graphs of the current document, they cannot be used as official, due to a possible misbehavior of the application.

3. New Marking Scale

In April 2015, the Board of Governors approved the introduction of a New Marking System for use at secondary in the European Schools.

The Marking System came into force gradually in three steps as follows:

Step	School Year	Year Group
Step 1	2018-2019	S1-S5
Step 2	2019-2020	S6
Step 3	2020 -2021	S7

For the S7, the school year 2020-2021 and the European Baccalaureate Session 2021 have been the first ones with the use of the New Marking System.

The introduction of the marking system, together with attainment descriptors derived from the syllabuses, represents a significant development for European Schools. The use of the system has implications for teaching, learning and assessment in our schools.

Introductory training was provided to all schools in the spring of 2017 and other trainings followed as well.

Guidelines were developed to offer additional support to schools and teachers in the implementation of the marking system in practice. The guidelines assisted schools and teachers to engage with the system in an informed way.

The guidelines include an overview of the marking system itself; a glossary of terminology and sections on planning for teaching, learning, assessment and assessment tools and tasks; an explanation of the use of the marking system in school reports; the European Baccalaureate and frequently asked questions. All this information can be found on the document 2017-05-D-29-en-9.

Much of the information in these guidelines could be evident to some of the teachers; however, it was provided to ensure a common understanding and a common approach among teachers and across language sections in order to support the effective implementation of the new marking system.

The new marking system for the secondary cycle of the European Schools, decided by the BoG at its meeting in Prague 2015, contains numerical marks and alphabetical grades, therefore both are used for assessment, depending on the year level.

In order to continue with the more holistic approach to assessment used in the primary cycle, in S1-S3 only grades (letters) are used, in single assessment tasks as well as in any kind of report.

In order to support progression towards the Baccalaureate, whole and half-numerical marks are used from S4 onwards.

In S7 decimal numerical marks are used. The overall average preliminary mark in year 7 is expressed with whole numbers and one decimal and the overall final mark in year 7 is expressed with whole numbers and two decimals.

	Grade (S1-S3)	Numerical Mark (S4-S6)	Numerical mark 1 decimal S7 Preliminary mark	Numerical mark 2 decimals S7 Final mark	Performance Indicator
Excellent though not flawless performance entirely corresponding to the competences required by the subject.	**A**	**10** **9.0-9.5**	**9.0-10**	**9.00-10**	**Excellent**
Very good performance almost entirely corresponding to the competences required by the subject.	**B**	**8.0-8.5**	**8.0-8.9**	**8.00-8.99**	**Very good**
Good performance corresponding overall to the competences required by the subject.	**C**	**7.0-7.5**	**7.0-7.9**	**7.00-7.99**	**Good**
Satisfactory performance corresponding to the competences required by the subject.	**D**	**6.0-6.5**	**6.0-6.9**	**6.00-6.99**	**Satisfactory**
Performance corresponding to the minimum of the competences required by the subject.	**E**	**5.0-5.5**	**5.0-5.9**	**5.00-5.99**	**Sufficient**
Weak performance almost entirely failing to meet the competences required by the subject.	**F**	**3.0-4.5**	**3.0-4.9**	**3.00-4.99**	**Failed (Weak)**
Very weak performance entirely failing to meet the competences required by the subject.	**FX**	**0-2.5**	**0-2.9**	**0.00-2.99**	**Failed (Very weak)**

- This new marking system contains 7 rather than 10 levels.
- Each level is characterized by a performance descriptor, a grade and a definition of general attainment.
- All ES Syllabuses now contain subject-specific attainment descriptors. It is important that these attainment descriptors be used in planning for teaching, learning, assessment and reporting.
- A candidate is deemed to pass at 5 (Sufficient – Grade E). A 5 can only be awarded where the requirements of the relevant attainment descriptor have been achieved.

4. The European Baccalaureate Examinations

4.1. Structure of the examinations

The structure of the European Baccalaureate examinations is defined in Article 3, “Uniformity of examinations”, of the Arrangements for Implementing the European Baccalaureate Regulations, which specifies that:

ARTICLE 3 — UNIFORMITY OF EXAMINATIONS

3.1 Uniformity of Examinations
The following can be the subject of written and oral European Baccalaureate examinations:
- Compulsory subjects (with the exception of Physical Education and Religion/Ethics)
- Options
- Advanced subjects

All written European Baccalaureate examinations carry the same weighting.
All oral European Baccalaureate examinations carry the same weighting.

3.1.1 All written European Baccalaureate examinations will be the same for all candidates, irrespective of the language section to which they belong.
The examinations in Languages 1, 2, 3 and 4 are different in so far as the examination papers are set with reference to texts in the original languages. However, they must also follow the general harmonization framework.

3.1.2 In Language 1, basic course, a uniform examination will be taken by all the pupils in the same language section. The same applies to Language 1, advanced course.

3.1.3 In Foreign Languages, a uniform examination will be taken in each language and at each level by candidates from all language sections.

5 written examinations	LI – basic or advanced course
	LII – basic or advanced course
	Mathematics – 3-periods or 5-periods course
	Two 4-period options
3 oral examinations	LI – basic or advanced course
	LII – basic or advanced course or History 2 p. or 4 p. (if not chosen as written examination) or Geography 2 p. or 4 p.(if not chosen as written examination)
	1 subject chosen by the pupil among the 2-period compulsory subjects and the 4-period options
	or Advanced Mathematics (compulsory for pupils who followed this course).

However, due to the COVID-19 pandemic situation and travel restrictions, the oral examinations' session was cancelled on 15 February 2021 by the Chairman of the European Baccalaureate session, Prof. Marie-Danièle CAMPION.

As consequence of this decision, an alternative calculation of the final mark was decided, and this was communicated to all the candidates and stakeholders of the European Schools.

4.2. Calculation of the European Baccalaureate 2021 final mark

In October 2020, the Joint Teaching Committee mandated the Office of the Secretary-General to set up the Task Force 'Preparation of the 2021 Baccalaureate session'.

Among others, the Task Force worked on 'Guidelines for the Baccalaureate session 2021' (2020-10-D-74-en-1) which were approved by the Board of Governors at its meeting in December 2020.

The Task Force is composed of the following representatives: Presidency of the 2021 session of the EB, OSGES, BoI, TROIKA, WG Assessment Secondary Cycle, ES Directors and Deputy Directors, AES Directors, ES and AES Teachers, ES and AES Pupils and ES and AES Parents, European Commission.

With respect to the final marks and potential process of moderation, the following is stated in the 'Guidelines':

"Moderation is an option, that will be further decided and fine-tuned if confirmed, in accordance with statistical forecasts, real results (A-marks and pre-baccalaureate included). It allows to intervene not only in case of a different calculation of the final mark, but also in case when results are much lower than expected due to the different conditions during this school year.

The individual results of each candidate will be considered to define the specific formula of moderation.

The experience from the last school year and the overall assessment of EB 2020 candidates showed that Pre-Baccalaureate results reveal to be fundamental to be achieved, accompanied by A-Marks and fine-tuned by written examinations, and if possible by oral examinations.

All formulas and moderation processes put forward are not fixed. They will in any way take real accurate marks into consideration. Moderation could intervene downgrading or upgrading the marks, depending on real results and the actual situation at the end of the school year. Any potential new formula will take into consideration the missing elements from the available A, B, W and/or O marks, and will seek the most equivalent fair substitution for them.

Any decision concerning the marks (subjects and final, potential moderation) will be taken by the Board of Governors, upon proposal by the Chairman, after consultation of the Board of Inspectors and the OSGES. The Chairman can seek advice from external consultancy or other bodies of the European Schools system."

Moreover, the 'Guidelines' clarify that "*any considered sensitive decision related to*

- *the cancellation of a set of examinations (Written and / or Oral examinations)*
- *a potential moderation or*
- *alternative EB final mark calculation*

will be subject to further consultation of the Board of Governors."[1]

On the 15th February 2021, following the decision of the Chairman of the European Baccalaureate session, Prof. Marie-Danièle CAMPION, all the stakeholders were informed that the 2021 session of the European Baccalaureate would consist of solely five written examinations, **the three oral examinations being cancelled**.

As a result of this decision, the final mark for the 2021 European Baccalaureate would be calculated as follows: marks 50%C (20%A + 30%B) + 35%W + 15%O, where **O is a replication of the A mark**.

[1] The proposed formula can be found in the TF report (2021-03-D-38)

- C : preliminary mark
- A : class mark
- B : Pre-Baccalaureate mark
- W : written examinations mark
- O : oral examinations mark

At that point in time, the written examinations were planned to take place as foreseen, i.e. from 31 May to 11 June 2021.

This possible decision also provided for it to be taken only after two major stages of consultation had been completed. The first was with the members of the Board of Inspectors (Secondary Cycle, BoI), the second, with the members of the Board of Governors (BoG).

At its meeting in April 2021, the Board of Governors took note of the Report of the Task Force[2] and confirmed the 'Guidelines' already approved at its meeting in December 2020. The President of the EB session endorsed the Report.

In this report, the Task Force shared with the Board first 2021 results of the Pre-Baccalaureate session in comparison with the sessions 2019 and 2020.

Moreover, it was announced that a more in-depth statistical analysis of the Pre-Baccalaureate results 2021 would be elaborated by the European Baccalaureate Unit in cooperation with the French Presidency of the EB 2021 session. The former Spanish and the incoming Croatian presidencies were invited to cooperate within the context of TROIKA.

At that moment, the orals were already cancelled and possible calculation of the final BAC mark was further consulted and agreed on. No cancellation of the written examinations would happen on a system level.

In order to prepare the consultation process with the Board of Inspectors Secondary Cycle and the Board of Governors on a potential moderation, an expert in psychometrics of the French Presidency and an external expert, who had already intervened in the context of the 2020 moderation process, were consulted.

In preparation of the extraordinary meeting of the Board of Inspectors Secondary Cycle, two meetings involving the President of the Baccalaureate session 2021, the President of the Board of Inspectors Secondary Cycle, the two experts referred to and members of the Office of the Secretary-General were organised on 17 and 21 May 2021.

In this context it is worth to mention an opinion of the French Presidency expert (psychometrician). According to him, it is strictly impossible to know whether the results (a priori or a posteriori) that will be obtained are the result of one or more of the following factors

- Negative impact of the health situation on teaching/learning conditions
- Negative impact of the health situation on the assessment conditions
- Impact (positive/negative) of teacher compensation on assessment practices
- Impact of the implementation of the new assessment system on the whole school.

The comparison of the distributions of the results of the year 2021, whatever the conditions of organisation of the EB 2021 at the level of the final examinations, cannot be scientifically founded. The result of this comparison, even if it were carried out with indicators of centrality (mean, median, mode) and dispersion and range (variance, standard deviation, min/max, first and third quartiles), would not make it possible to consider irrefutably that it is appropriate to compensate positively or negatively for the marks obtained by the pupils. Indeed, the year 2021 is unique in its kind and could not, in this sense, be compared in a fair way for all pupils to another. In summary, scientific moderation seems not to be possible for the 2021 Baccalaureate session.

[2] 2021-03-D-38

In line with the dispositions of Report 2021-03-D-38-en-2 “Task Force on the ‘Preparation of the European Baccalaureate 2021’”, foreseeing that “*After the end of the EB session, a short, written communication summarizing the session evolution and the measures taken will be sent to the Board of Inspectors, the Board of Governors and the TF members, for updated information.”, the stakeholders were* informed that the final marks of the 2021 session of the European Baccalaureate will not be submitted to a moderation process.

In agreement with Reports

- 2020-10-D-74-en-2

TASK FORCE “Preparation of the European Baccalaureate session 2021”– ‘GUIDELINES for the Baccalaureate session 2021’, approved by the December 2020 Board of Governors

and

- 2021-03-D-38-en-2

REPORT of the TASK FORCE on the ‘Preparation of the European Baccalaureate 2021’, approved by the April 2021 Board of Governors, endorsed by the President of the European Baccalaureate 2021 session, Prof. Marie-Danièle CAMPION.

Considering that

- all European and European Accredited Schools were able to organize all written examinations in situ and that no examination was cancelled,
- the final marks of the EB 2021 session have been scrutinized and no difference statistically relevant was observed in comparison to previous regular EB sessions (2019 and earlier),

following the opinions, in prior consultation, of the Board of Inspectors secondary cycle and of the TASK FORCE “Preparation of the European Baccalaureate session 2021” Core Group and Consultative Body, the President of the 2021 EB session, Prof. Marie-Danièle CAMPION decided to not implement any kind of moderation on the final marks of the EB 2021 session.

As a consequence, the final EB marks 2021 were calculated applying the following formula agreed by the Board of Governors:

C-Mark 50% (20 % A + 30% B) + W 35% + O 15% as a replication of final A-mark.

Where

- A is the final Class mark
- B is the final Pre-Baccalaureate mark
- C is the Preliminary mark
- W is the final written mark
- O is the final oral mark (replication of the final A-mark, as per decision of the President of the 2021 EB session, Prof. Marie-Danièle CAMPION, on 15 February 2021).

4.3. Additional written examinations

Article 13 of the Arrangements for implementing the regulations for the European Baccalaureate establishes that candidates may be allowed to sit for an additional written examination of an option subject and the conditions therefor.

Article 13 states that:

13.1 In particular cases, European School pupils in the final school year may register for the European Baccalaureate in an additional option subject, whether or not they have attended lessons in the subject in question at the School.

However, in the case of Music and Art, due to specific syllabus requirements, an additional exam can only be applied for if the pupil has followed the subject or if he provides evidence of the prescribed work done during s6 and s7 so as to ensure that the syllabus requirements are met. (…)

13.4 Only written examinations will be available (…)

13.4.2 The examination script will be corrected, in the same conditions as normal European Baccalaureate examination scripts.

13.5 The result in this additional written examination will not be included for the purposes of calculating the final mark appearing on the candidate's Certificate of European Baccalaureate Marks, but will be shown on an Additional Examination Certificate signed by the Secretary-General of the European Schools (…).

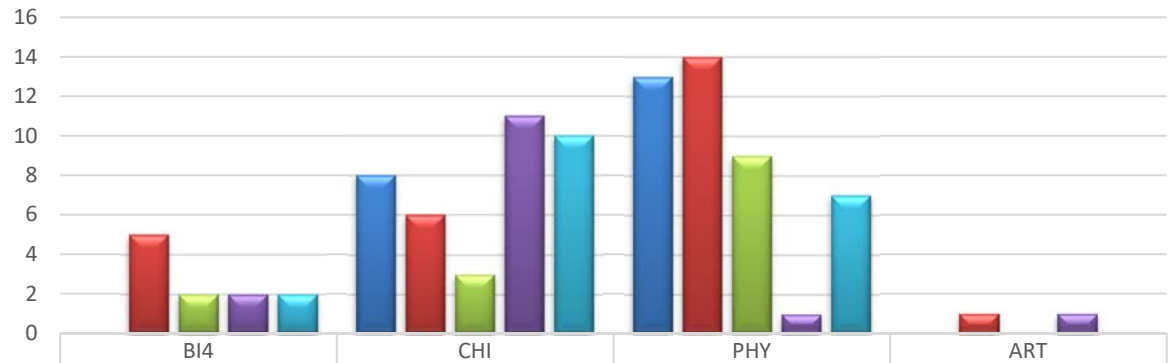
The graph below shows the evolution of requests for an additional written examination over the last five years.

30 requests were received this year, 27 were accepted.

6 candidates finally withdrew their request before the examinations. Therefore, only 21 additional written examinations were taken under article 13 at the 2021 EB session with an average mark of 6.84 and a success rate of 90.48%

As in the two previous years, Physics remains the most popular subject chosen (in 5 different languages) as an additional examination.

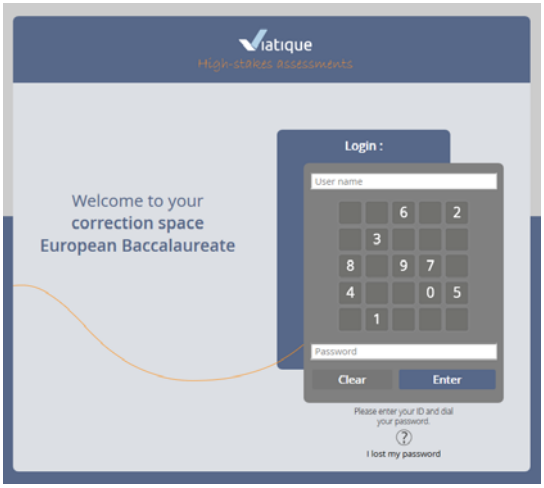
Additional Written Examinations - Art. 13



	BI4	CHI	PHY	ART
2021		8	13	
2020	5	6	14	1
2019	2	3	9	
2018	2	11	1	1
2017	2	10	7	

4.4. Correction of the European Baccalaureate Examinations: the On-line Correction System

The Viatique platform was for the fifth time (including the partial use for the September session of EB 2020) the chosen platform in order to correct on-line the scripts of the European Baccalaureate 2021 session.



Following the annotations made by the different stakeholders of the system (inspectors, teachers, external examiners, schools and European Baccalaureate unit) during the previous sessions, the platform suits better every year to the **European Baccalaureate regulations and helps to optimize and simplify some tasks, as for instance among others:**

- correction of the scripts
- follow up of the corrections for inspectors
- management of third corrections
- viewing of the scripts in the schools
- details of the viewing of the scripts on the screen
- administration panel

The implementation of the on-line correction system during the European Baccalaureate session 2021 was this year once again, very successful thanks to everybody's efforts and co-operation.

This system shows great potential for the continuous improvement of the quality of assessment of the written European Baccalaureate examinations and for enhancing the efficiency of all the phases in the correction process.

These are some key features supported by the on-line platform:

Scanning of the examination scripts

The scanning of the scripts was made in each examination center. The scripts were compacted and uploaded automatically to a secure server with an encrypted connection.

The scanning of the examination scripts allowed scripts to be available earlier for second correctors, with the advantage of extending the correction period for second correction.

This year the paper examination scripts stayed in the schools. Therefore, there was no need to send the papers to the corrections centers.

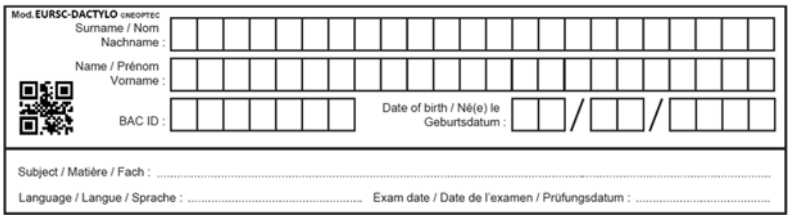
The scanning of the 2021 European Baccalaureate scripts went extremely well and fast. Almost all scripts were scanned right after the examination according to the schedule foreseen, and there was no delay in their distribution to the correctors.

The readability of the scripts on the screen was very good. The scanning of special formats for pupils with special arrangements was also successful.

As previous years, a survey was conducted and almost all the teachers and external correctors think that the readability of the scripts on the screen is good or very good.

Anonymity

Anonymity of the scripts resulted in the unbiased assessment of candidates. This was automated during the scanning process.

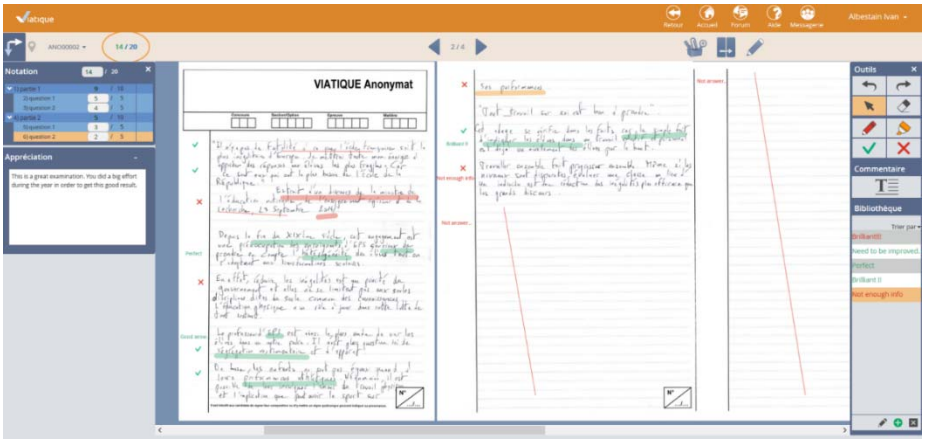


All examinations subjects' scripts were anonymized, with the exception of Art and Music. The written part of these examinations also went on the official examination paper, which was scanned. The rest of the parts, preparation and final art work was provided to the correctors exceptionally online.

Criteria referenced

All examinations were accompanied by a marking scheme and grid, correction criteria and guidelines and/or suggested answers. These were known to the correctors and served as a benchmark to assess the examinations and award marks, through the forum in Viatique.

Multiple correction and marking: Internal / External



The on-line tools allowed the same script to be corrected by more than one corrector. In our system, every script is corrected twice. A third corrector can be involved if there is a mark disagreement of over 2 points between the two correctors.

The on-line platform also made it possible to make sure that each corrected regularly added a final general mandatory commentary as established in the regulations. To validate the correction of a single script the corrector only needed to have entered the marks for every question and the final commentary, otherwise the "Validate" button would not be active.

Random allocation of the scripts

On-line correction tool allowed distributing evenly scripts from different schools to different correctors. Before, so as to simplify the logistics, it was normally one corrector who corrected all the scripts from the same class/school.

Blind correction

On-line correction tools allowed scripts to have marking signs, symbols and comments without them being accessible to the second corrector, so that the second correction remained unbiased.

However, all these elements were accessible to the third corrector (in the cases of mark disagreement over 2 marks), the inspectorate and European Baccalaureate Unit.

Correction fully from distance

The first correction was still carried out internally by the teacher of the candidate in the European Schools and the Accredited Schools.

This year, due to COVID travel restrictions there were no correction centres opened for the external correctors. Consequently, all the written corrections were done online through Viatique from all correctors' own places. During the correction period, all inspectors were available on-line for assisting and guiding the correctors when necessary. The works of Art were photographed and put at the disposal of the external examiners through the EB Sharepoint.

Retrieving evidence and accessibility to corrected scripts

Corrected scripts were easily accessible since they are stored in a secured server accessible anytime from anywhere. This also eliminates the difficulty of retrieving documents in case of appeals and especially during periods where many members of the staff in the schools are on holidays.

Correctors training

The on-line correction tools are easy to use. There is an on-line tutorial and a help-line. The electronic tools are web-based so that no software needs to be installed in the correctors' own computers. Assistance for correctors and short refresher trainings were provided in the correction centers by the European Baccalaureate Unit.

Corrector's assessment

The on-line tools were able to inform on correctors' performance. Analysis of standard deviation on the corrected items or papers was possible.

Possibility of moderation

The on-line tools allow automated recalculation of values either for the whole examination or for individual questions as a result of the modification of values in the different questions of an examination or due to the cancellation of one or several questions.

Monitoring of the correction process

On-line correction tools allow monitoring and validation of the correction process. They provide immediate access to statistics on performance.

PreBaccalaureate session with Viatique

This year Viatique was also used by the 13 European Schools and 1 accredited school in order to correct the long PreBacclaureate examinations of the 2020-2021 session. The schools decided to digitalize all their examinations to be corrected online (scientific and literary subjects).

Operational phase

The basic structure in the platform was handled by Exatech (the provider of the platform) along with the EB Unit. Meaning all subjects/classes, candidates and teachers were imported in advance into the platform.

The Administrative supervisors / scanning operators from each school had the following essential tasks:

- Assign teachers to their classes;
- Activate the scanning and activate the correction;
- Scan the scripts;
- Import the marking grids.

Correction phase

All the corrections went very well. Most teachers were already accustomed to the platform from previous European Baccalaureate sessions and picked up the correction easily. For some new teachers this was a little bit more challenging but they were smoothly guided by their schools and the European Baccalaureate Unit and they did it perfectly and no problems arose.

Import phase

After the correction phase in each school, the students' marks were imported by the EB Unit from Viatique into SMS and there were no issues during and after the process of importing the marks into SMS.

Archive phase

Shortly after the import phase, the access to the Archive was given to Administrative supervisors so that they can have the access to all the scripts whenever they are required opportunely.

5. Assurance Quality of the 2021 European Baccalaureate session

5.1. The European Baccalaureate Subjects

The European Baccalaureate examinations are elaborated under the responsibility of the secondary cycle inspectors listed below, assisted by teams of external experts. For the 2021 EB session, 176 experts participated in the elaboration of around 300 examination papers (150 main papers and 150 reserve papers). Each examination paper was accompanied by suggested answers, assessment criteria, marking instructions and marking grid.

The Board of Inspectors (Secondary) may decide to submit written European Baccalaureate examinations to external auditing in order to add a further layer of quality assurance.

The external auditing of the examination papers is performed by independent experts with experience in the field of assessment. These experts are proposed by the Chairman of the European Baccalaureate Examining Board.

For the European Baccalaureate session of 2021, the following examination papers were audited externally and were found fit for purpose:

- L2 French
- Biology
- Chemistry
- Philosophy
- Mathematics 3P
- Mathematics 5P
- Physics

5.2. Quality control of the European Baccalaureate examinations proceedings

Normally the Quality control of the written and oral examinations is carried out by the Vice-Chairmen in the 23 participating schools. In order to supervise the proceedings, the Vice-Chairmen visit the assigned examination centers for up to 2 days during the written examinations and for a maximum of 4 days per center throughout the oral examinations' period.

Due to COVID travel restrictions this year not all the schools were supervised in presence by the Vice-Chairmen during the days of the written examinations

Therefore, this year the supervision of the examination centers was distributed as follows:

School	The Vice-Chairmen and Quality Control
►ALICANTE	Mr Javier GARRALÓN BARBA, Ms Soledad IGLESIAS JIMENEZ
►BERGEN	Ms Edith NEUTEL
►BRUSSELS 3	Ms Els VERMEIRE
►FRANKFURT	Mr Max WOLFF
►LUXEMBOURG 1	Mr Max WOLFF
►MUNICH	Mr Lars DAMKJAER, Ms Renata JURANOVA, Ms Karin STEPPAN

►*BRINDISI	Ms Miriam STANONIK
►*EUROPASCHOOL UK	Mr Paul METCALF
►*DEN HAAG	Mr Alex COENEN
►*HELSINKI	Ms Tuulamarja HUISMAN
►*HERAKLION	Ms Margarita KALOGRIDOU
►*PARMA	Ms Diana SACCARDO
►*RHEINMAIN	Ms Urszula ŁĄCZYŃSKA
►*TALLINN	Ms Ulla KAMP

5.3. Inspectors responsible for the different subjects

Subject	Language	Inspector
ANCIENT GREEK		Ms Margarita KALOGRIDOU
ART		Mr Alex COENEN
BIOLOGY		Mr Max WOLFF
CHEMISTRY		Mr Alex COENEN
ECONOMICS		Ms Maria José BUGIA
GEOGRAPHY		Ms Soledad IGLESIAS JIMENEZ
HISTORY		Ms Renata JURANOVA
LANGUAGE I and advanced level	BG	Ms Veselina GANEVA
	CS	Ms Renata JURANOVA
	DA	Mr Lars DAMKJAER
	DE	Mr Thilo BUCHMAIER
	EL	Ms Margarita KALOGRIDOU
	EN	Mr Paul METCALF
	ES	Mr Javier GARRALÓN BARBA
	ET	Ms Ulla KAMP
	FI	Ms Tuulamarja HUISMAN
	FR	Mr Jean-Pierre GROSSET-BOURBANGE & Mr Emmanuel de TOURNEMIRE
	HR	Mr Darko TOT
	HU	Ms Rita KERTESZ
	IT	Ms Diana SACCARDO
	LT	Ms Daiva JAKAVONYTĖ-STAŠKUVIENĖ
	LV	Ms Olita ARKLE
	MT	Ms Maria Dolores COLEIRO
	NL	Ms Edith NEUTEL & Ms Els VERMEIRE
	PL	Ms Urszula ŁĄCZYŃSKA
	PT	Ms Maria José BUGIA
	RO	Mr Sorin GIURUMESCU
	SK	Ms Jana HANDZELOVÁ
	SL	Ms Miriam STANONIK
	SV	Mr Alper YILMAZ

Subject	Language	Inspector
LANGUAGE II, III, IV and advanced level	DE	Ms Karin STEPPAN
	EL	Ms Margarita KALOGRIDOU & Ms Irena RODOSTHENOUS
	EN	Mr Paul METCALF & Ms Lynda O'TOOLE
	ES	Mr Javier GARRALÓN BARBA
	FI	Ms Tuulamarja HUISMAN
	FR	Mr Jean-Pierre GROSSET-BOURBANGE & Mr Emmanuel de TOURNEMIRE
	GA	Ms Lynda O'TOOLE
	IT	Ms Diana SACCARDO
	MT	Ms Maria Dolores COLEIRO
	NL	Ms Edith NEUTEL & Ms Els VERMEIRE
	PT	Ms Maria José BUGIA
	SV	Mr Alper YILMAZ
LATIN		Mr Jean-Pierre GROSSET-BOURBANGE & Mr Emmanuel de TOURNEMIRE
MATHEMATICS 3P & 5P		Mr Alper YILMAZ & Ms Urszula ŁĄCZYŃSKA
MUSIC		Ms Miriam STANONIK
OTHER NATIONAL LANGUAGE	FI	Ms Tuulamarja HUISMAN
	GA	Ms Lynda O'TOOLE
	MT	Ms Maria Dolores COLEIRO
	SV	Ms Tuulamarja HUISMAN
PHILOSOPHY		Ms Els VERMEIRE
PHYSICS		Ms Urszula ŁĄCZYŃSKA & Mr Alper YILMAZ

6. The European Baccalaureate Candidates

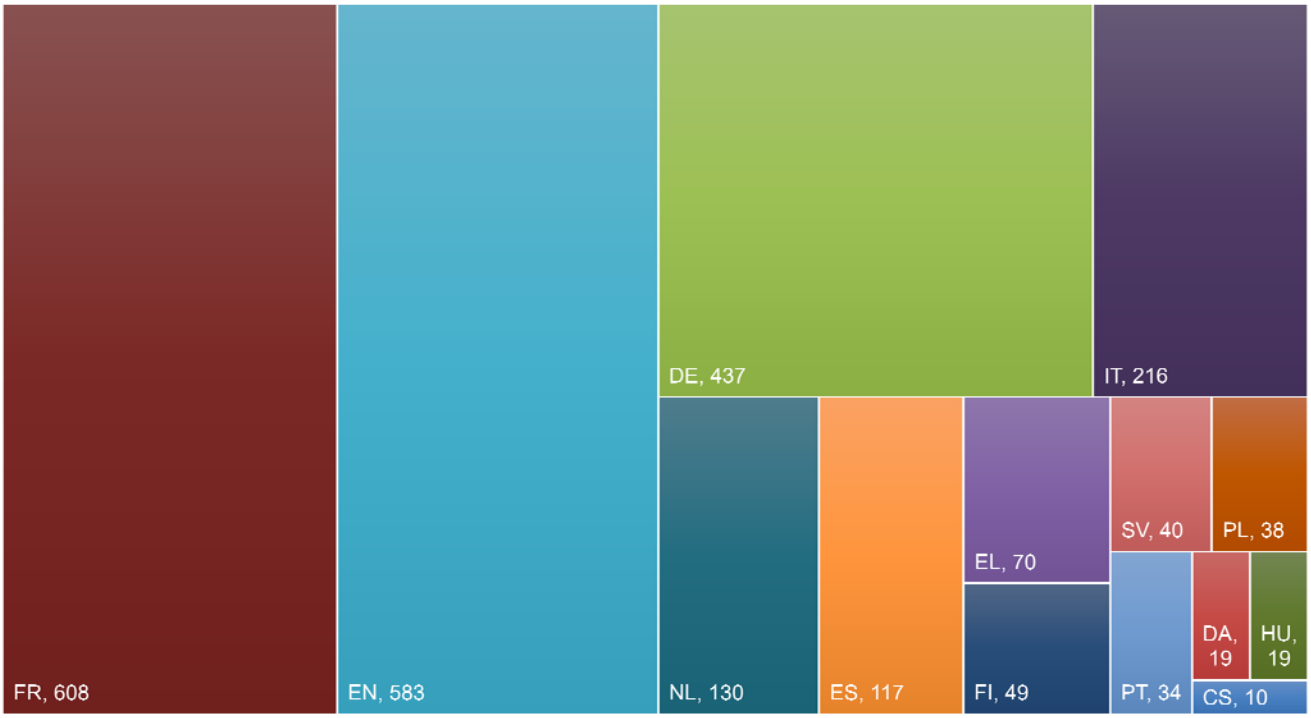
6.1. Number of candidates in the 2021 European Baccalaureate session

European School of (ES)			
1.	Alicante	(ALI)	76 candidates
2.	Bergen	(BER)	37 candidates
3.	Bruxelles 1 – Uccle	(Br 1 - UCC)	275 candidates
4.	Bruxelles 2 – Woluwé	(Br 2 - WOL)	225 candidates
5.	Bruxelles 3 – Ixelles	(Br 3 - IXL)	229 candidates
6.	Bruxelles 4 – Laeken	(Br 4 - LAE)	215 candidates
7.	Frankfurt	(FRF)	109 candidates
8.	Karlsruhe	(KAR)	62 candidates
9.	Luxembourg I	(LUX)	210 candidates
10.	Luxembourg II	(MAM)	170 candidates
11.	Mol	(MOL)	54 candidates
12.	Munich	(MUN)	187 candidates
13.	Varese	(VAR)	110 candidates
			1959 candidates

European Accredited Schools (EAS)			
1.	Liceo Scientifico "Fermi-Monticelli" – European High School Brindisi	(*BRI)	23 candidates
2.	Europa School UK	(*CUL)	28 candidates
3.	Europese School Den Haag	(*DHG)	55 candidates
4.	European Schooling Helsinki	(*HEL)	26 candidates
5.	The School of European Education of Heraklion	(*HER)	9 candidates
6.	École internationale de Manosque	(*MAN)	17 candidates
7.	Scuola per l'Europa di Parma	(*PAR)	51 candidates
8.	The European School RheinMain	(*RHM)	117 candidates
9.	École européenne de Strasbourg	(*STR)	77 candidates
10.	Tallinna Euroopa Kool	(*TAL)	8 candidates
			411 candidates

TOTAL NUMBER OF CANDIDATES EB Session 2021	**2.370 candidates**

Number of candidates per Linguistic Section - BACC 2021



The following numbers represent the choices done by the candidates for their written and oral examinations.

	Cands.	Written Exams	Total Written Exams	Additional Exams	Grand Total Written Exams	Oral Exams	Total Oral Exams	TOTAL EXAMS
ES	1.959	5 per cand.	**9.795**	**21**	**9.816**	3 per cand.	**5.877**	**15.693**
AES	411	5 per cand.	**2.055**	**0**	**2.055**	3 per cand.	**1.233**	**3.288**
TOTAL	**2.370**		**11.850**	**21**	**11.871**		**7.110**	**18.981**

The following tables show the repartition of options of the candidates of the European Baccalaureate 2021 session, by school and by subject:

WRITTEN EXAMINATIONS

	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	ALI	BER	BR1-UCC	BR2-WOL	BR3-IXL	BR4-LAE	FRA	KAR	LUX	MAM	MOL	MUN	VAR	Total
AR4	3	8	6	1		2	4	23	9		14	6	25	34	24	28	10	9	26	17	14	27	13	**303**
BI4	1	4	7	7	5	6	11	10	4	3	19	17	70	54	58	48	24	1	40	46	15	36	20	**506**
CHI	7	5	19	7	1	7	10	18	30	1	25	10	79	61	60	52	32	24	51	36	18	42	21	**616**
ECO	1	8	14	5			7	50	20	4	13	15	21	47	34	54	40	13	57	47	10	25	39	**524**
GE4	9	12	7			3	3	40	15	4	1	6	51	23	25	62	22	29	38	18	3	43	25	**439**
GRE																						2		**2**
HI4	7	6	8	10	1	3	6	26	9	1	7	2	49	42	46	35	20		59	33	13	49	9	**441**
L1-	23	24	55	26	9	15	47	114	67	8	73	37	257	211	216	206	109	62	199	163	48	182	107	**2258**
L1A		4				2	4	3	10		3		18	14	13	9			11	7	6	5	3	**112**
L2-	23	28	55	26	9	17	45	104	67	8	70	32	270	212	218	209	102	62	190	154	54	177	103	**2235**
L2A							6	13	10		6	5	5	13	11	6	7		20	16		10	7	**135**
L3-	12	4	17	8	2	1	28	5	24	1	18	5	87	77	67	61	31	15	56	45	10	68	35	**677**
L4-	4		3	5	4	3	11	20	12		13		58	27	43	30	8	7	23	20	4	17	15	**327**
LAT									5							2						5		**12**
MA3	17	18	26	16	9	3	27	91	36	2	37	25	130	117	111	123	68	46	125	88	31	112	51	**1309**
MA5	6	10	29	10		14	24	26	41	6	39	12	145	108	118	92	41	16	85	82	23	75	59	**1061**
MU4		1	1		1			6							5	3	2		4					**23**
ONL													1	1										**2**
PH4		3	8	5			8	18	6		17	4	26	23	25	16	5	15	12	22	9	9	16	**247**
PHY	2	5	20	4	4	9	14	18	20	2	26	13	84	63	73	40	24	11	55	60	16	52	27	**642**
Total	**115**	**140**	**275**	**130**	**45**	**85**	**255**	**585**	**385**	**40**	**381**	**189**	**1376**	**1127**	**1147**	**1076**	**545**	**310**	**1051**	**854**	**274**	**936**	**550**	**11871**

ORAL EXAMINATIONS

	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	ALI	BER	BR1-UCC	BR2-WOL	BR3-IXL	BR4-LAE	FRA	KAR	LUX	MAM	MOL	MUN	VAR	Total
BI2	2	6	14	2	1	2	10	26	24	1	18	6	53	28	22	33	17	13	31	38	14	24	18	**403**
BI4	5	4	5				1	7	14	1	1	2	13	22	4	5	13	11	28	5	2	29	8	**180**
CHI		1	2	1		1	2		2		2	1	5	5	4	5	7	1	11	6	1	2	1	**60**
GE2	1	2	2	1	2	7	8	19	24	1	3	8	59	6	10	22	26	11	19	21	4	28	16	**300**
GE4	1		2			1	1	1	1			1	11	1	6	6		1	7	2		14		**56**
HI2	3	4	17	2		3	8	21	18	1	5	4	22	25	17	22	16	15	18	15	17	26	11	**290**
HI4	3		3				1	1	1	2	1	2	7	2	1	6	1		2	1	3	1	2	**40**
L1-	23	24	55	26	9	15	47	114	67	8	73	37	257	211	216	206	109	62	199	163	48	182	107	**2258**
L1A		4				2	4	3	10		3		18	14	13	9			11	7	6	5	3	**112**
L2-	15	22	31	23	7	6	30	63	26	4	61	19	174	178	187	153	62	35	147	120	30	114	74	**1581**
L2A							4	12	7		6	3	3	13	8	6	4		17	11		4	7	**105**
L3-	3	5	5	5		1	7	2	10	3	9	2	36	19	38	31	18	9	35	22	4	24	13	**301**
L4-	3			2			3	2	2		4		6	10	7	7	6		6	7	1	4		**70**
MAA			7			6	1	8	14		18	5	19	19	22	10			12	16		12	9	**178**
ONL															1									**1**
PH2	10	6	18	9	3	7	25	49	6	3	16	19	124	101	117	106	48	23	74	68	27	84	47	**990**
PH4		6	3	7	5		1	22	5		7	2	14	15	13	17		5	5	6	3	6	13	**155**
PHY			1					1			1		4	6	1	1			8	2	2	2	1	**30**
Total	**69**	**84**	**165**	**78**	**27**	**51**	**153**	**351**	**231**	**24**	**228**	**111**	**825**	**675**	**687**	**645**	**327**	**186**	**630**	**510**	**162**	**561**	**330**	**7110**

6.2. Participation in the European Baccalaureate 2021 session by school and by language section

Of the 2389 pupils registered for the European Baccalaureate 2021 at the beginning of the 2020-2021 school year, 2370 actually took part in the examinations, 19 pupils having given up their studies in mid-year or during the European Baccalaureate session.

During the written examinations, 20 candidates were partially absent due to medical reasons or to participation in other national examinations among the 31 reserve written examinations. Therefore 20 different examinations were organized for the reserve session in June 2021.

Subject	Language	Number of written examinations (June)	Number of used reserve papers
ART	FR	1	1
BIOLOGY	FR	1	1
CHEMISTRY	EN	4	1
GEOGRAPHY	EN	2	1
HISTORY	EN	3	1
	FR	1	1
L1	FR	1	1
	EN	2	1
L2	EN	2	1
	FR	2	1
	DE	1	1
L3	EN	1	1
MATH 3P	DE	1	1
	HU	1	1
MATH 5P	FI	1	1
	EN	2	1
	PL	1	1
	DE	1	1
	FR	2	1
PHYSICS	EN	1	1
TOTAL		**31**	**20**

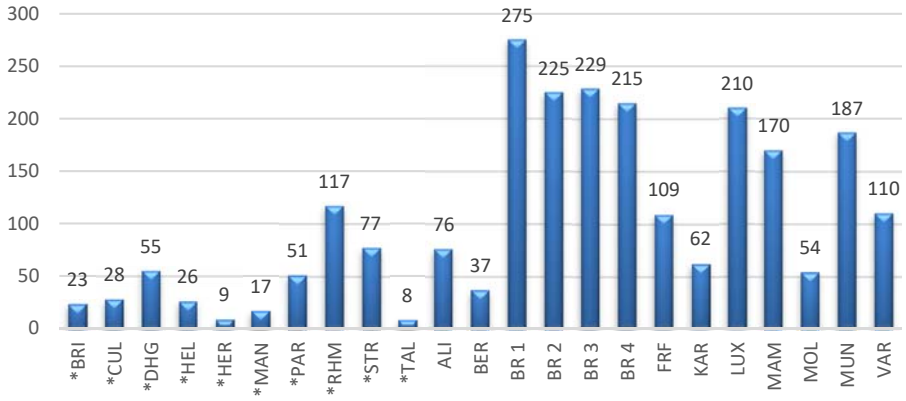
This year an extraordinary session in September has been necessary for 2 registered candidates who sat 10 reserve examinations. As a consequence, 10 second reserve examination papers had to be prepared and were used.

Subject	Language	Number of written examinations (September)	Number of used reserve papers
BIOLOGY	FR	1	1
CHEMISTRY	FR	1	1
ECONOMY	DE	1	1
GEOGRAPHY	DE	1	1
L1	FR	1	1
	NL	1	1
L2	EN	1	1
	DE	1	1
MATH 3P	NL	1	1
MATH 5P	FR	1	1
	TOTAL	**10**	**10**

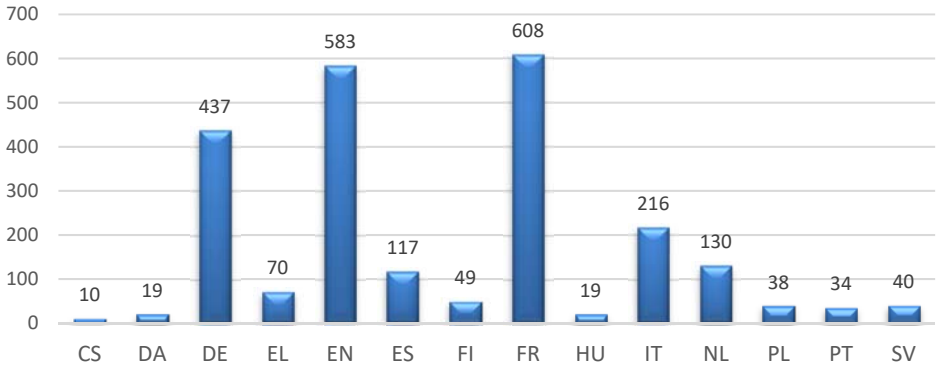
The largest number of European Baccalaureate candidates per school come from the European School of Brussels 1 – UCC (275).

The lowest cohort, 8 and 9 pupils, belongs to the Accredited Schools of Tallinn (Estonia) and Heraklion (Greece) respectively.

Number of candidates per school - EB 2021



Number of candidates per linguistic section - EB 2021



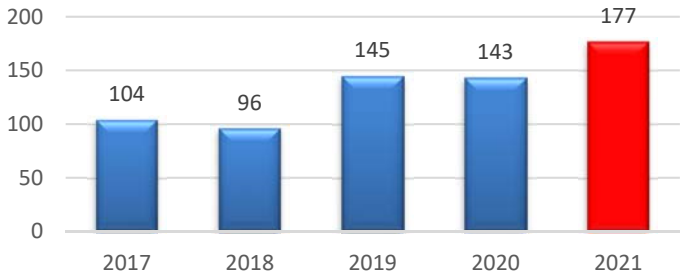
The largest number of European Baccalaureate candidates per language section can be found in the French language section, with 608 candidates, closely followed by candidates from the English section, 583, and the German section, 437.

6.3. Candidates with Special Arrangements

Article 15 and Annex IX of the Arrangements for implementing the Regulations for the European Baccalaureate permit candidates with special educational needs to apply for special arrangements for taking of their examinations.

Appropriate arrangements were made for 177 candidates.

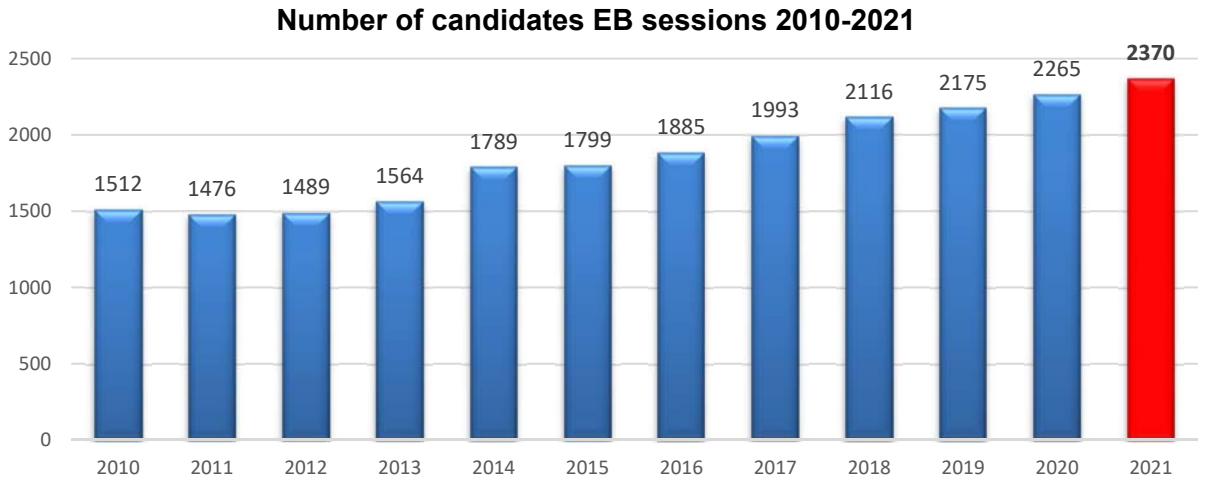
Number of pupils with granted special arrangements

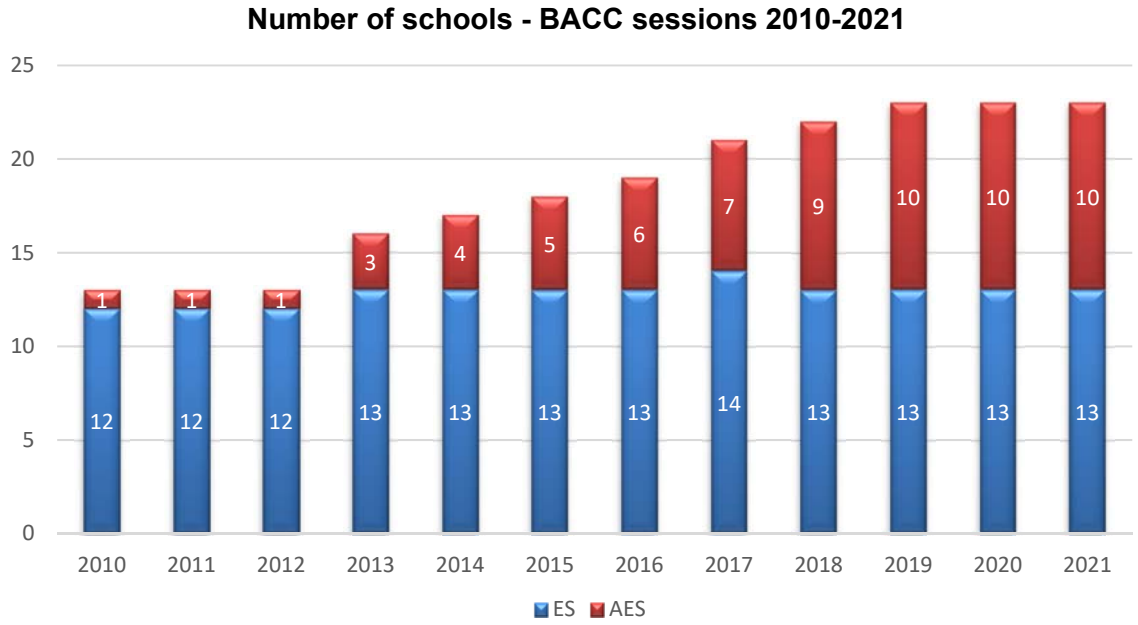


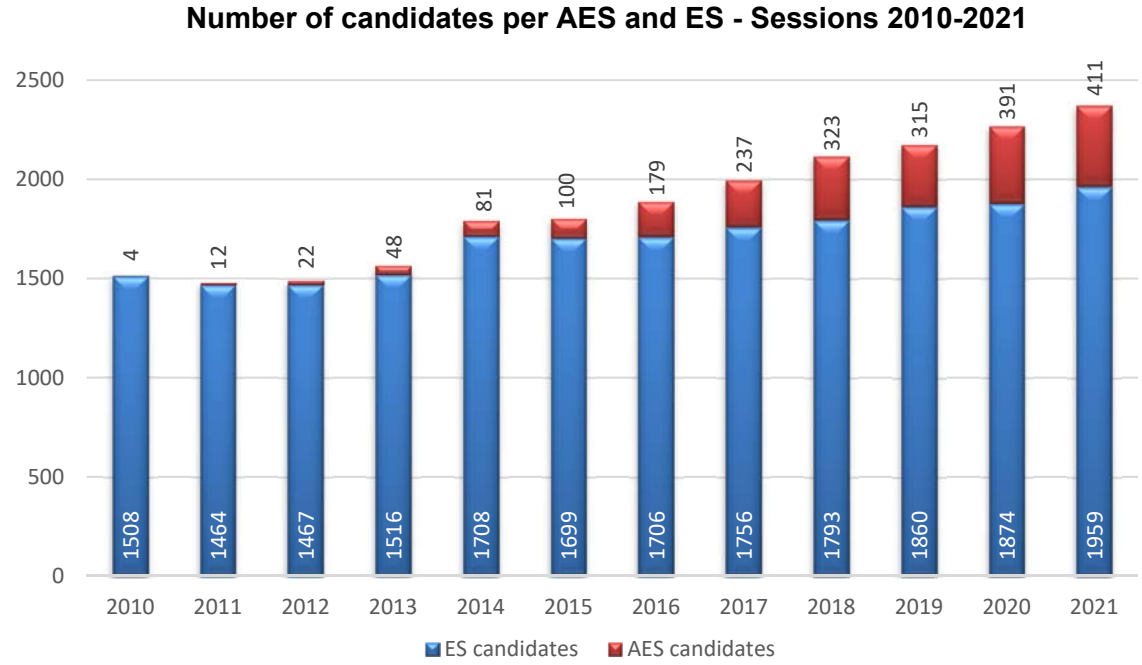
The most common special arrangements that were granted this year were:

- 10 minutes' extra time per examination hour
- 10 minutes' extra time for preparation of the oral examinations
- use of a computer with or without a spell checker
- use of a calculator
- reader.

6.4. Evolution of the number of schools and candidates over the years



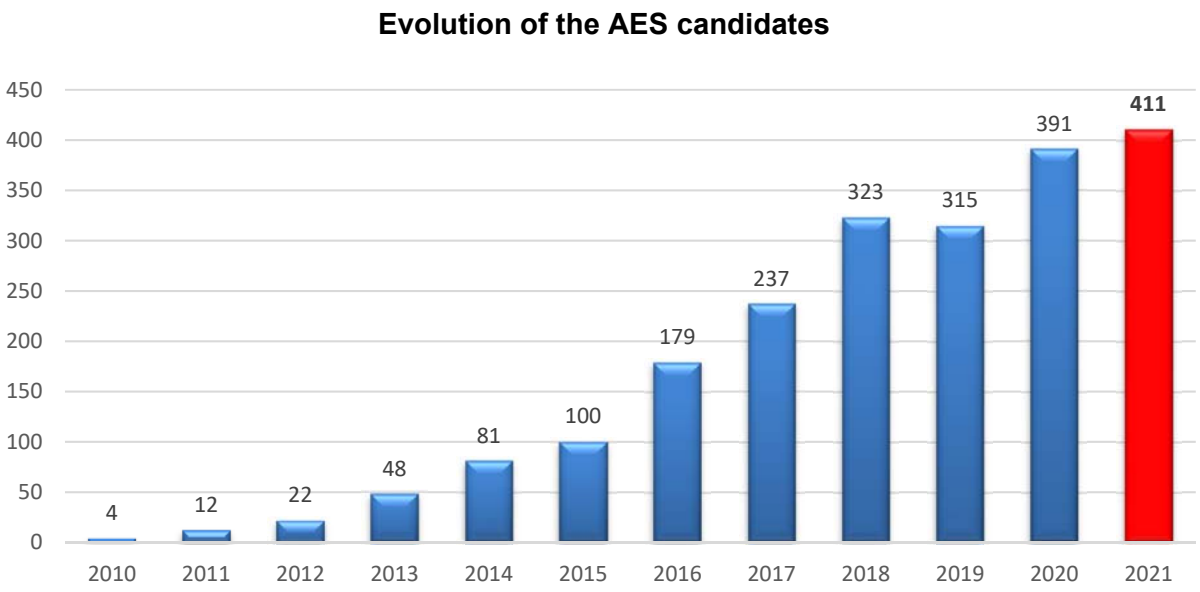




Evolution of the AES candidates (considering 2009 as the 1st year of AES in EB session)

Sessions	ES candidates	AES candidates	Total	Evolution AES (2009 as reference)
2009	1481	12	1493	1.00
2010	1508	4	1512	0.33
2011	1464	12	1476	1.00
2012	1467	22	1489	1.83
2013	1516	48	1564	4.00
2014	1708	81	1789	6.75
2015	1699	100	1799	8.33
2016	1706	179	1885	14.92
2017	1756	237	1993	19.75
2018	1793	323	2116	26.92
2019	1860	315	2175	26.25
2020	1874	391	2265	32.58
2021	1959	411	2370	34.25
	21791	**2135**	**23926**	

In 13 session's time, the number of AES candidates was increased by roughly 34 times in comparison with the first session in 2009.

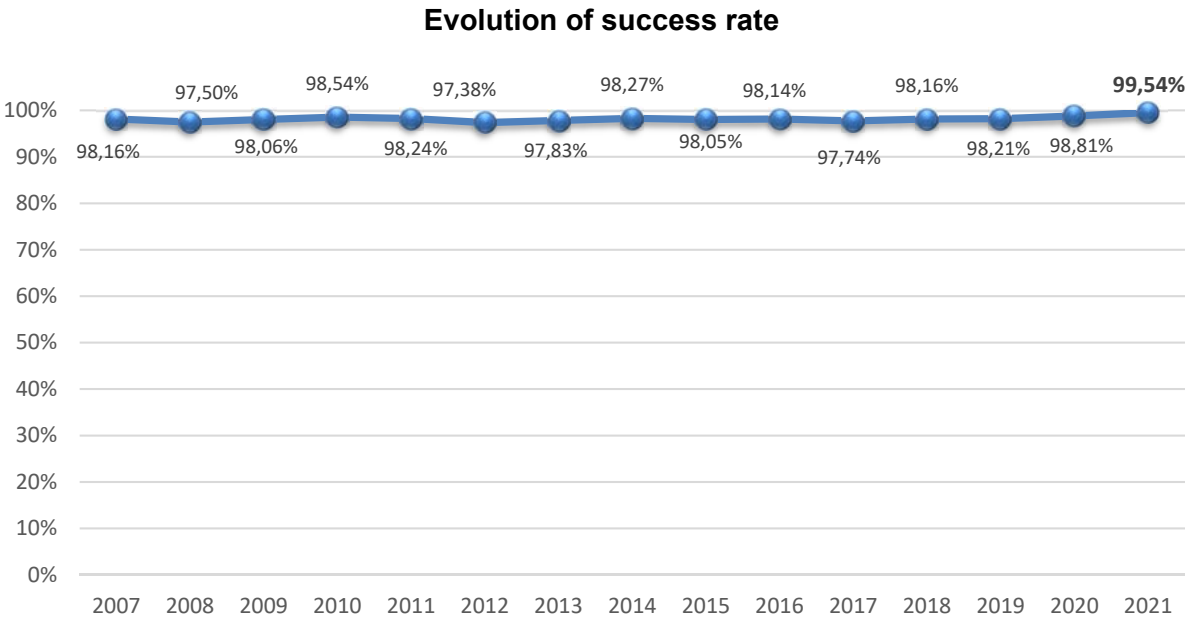


7. General Results of the European Baccalaureate 2021 session

EB session 2021 – participants	
Registered	2389
Abandoned	19
Participated	**2370**
Passed	2359
Failed	11
Success rate	**99.54%**
Fail rate	**0.46%**

European Baccalaureate 2021 – Averages	
Overall Average for the Preliminary Mark	**80.44**
Overall Average for Written Examinations	**72.83**
Overall Average for Oral Examinations	**83.20**
Overall Average for the Final Mark	**78.19**

7.1. Success rate over the last 15 years



A comparison of success rates over the last 15 years shows that the European Baccalaureate situation stays stable.

As from session 2007, the variation in success rate never went over ± 1.8%, with a general average over the 15 last sessions of 98.18%.

Success rate EB session 2021

School	Number of pupils	Succeeded	Failed	Success rate
ALI	76	76		
BER	37	37		
*BRI	23	23		
BR3-IXL	229	229		
*CUL	28	28		
*DHG	55	55		
FRF	109	109		
*HEL	26	26		
*HER	9	9		100,00%
KAR	62	62		
*MAN	17	17		
MOL	54	54		
*PAR	51	51		
*RHM	117	117		
*STR	77	77		
*TAL	8	8		
VAR	110	110		
BR2-WOL	225	224	1	99,56%
MUN	187	186	1	99,47%
BR4-LAE	215	213	2	99,07%
LUX	210	208	2	99,05%
BR1-UCC	275	272	3	98,91%
MAM	170	168	2	98,82%
	2370	**2359**	**11**	**99.54%**

Success rate per type of school

Type	ES	AES	Total
Cand	1959	411	**2370**
%	82,66%	17,34%	**100,00%**
Passed	1948	411	**2359**
Failed	11	0	**11**
Success rate	99.44%	100.00%	**99.54%**

Success rate by language section

The following table shows the success rate in the different language sections. This year, the success rates by language section ranged between 97.06% and 100.00%.

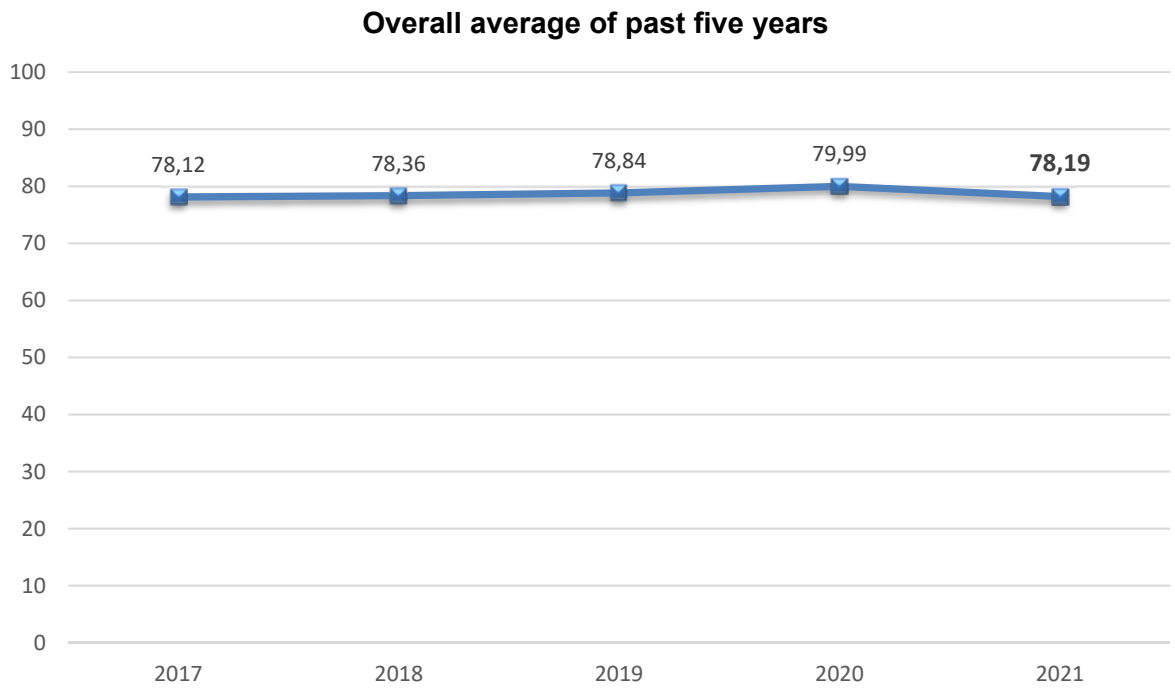
Due to small numbers of candidates in some sections, the results are not always statistically comparable.

Ling. Section	Number of candidates	% candidates	Average of Final grade	Failed	Succeeded	Success rate	Schools involved
CS	10	0,42%	83,72		10	100,00%	1
DA	19	0,80%	82,96		19	100,00%	2
DE	437	18,43%	79,72	1	436	99,77%	13
EL	70	2,95%	83,52		70	100,00%	3
EN	583	24,59%	79,23		583	100,00%	22
ES	117	4,93%	77,23		117	100,00%	4
FI	49	2,07%	77,24		49	100,00%	3
FR	608	25,64%	75,93	5	603	99,18%	18
HU	19	0,80%	79,84		19	100,00%	1
IT	216	9,11%	79,03	1	215	99,54%	9
NL	130	5,48%	75,04	1	129	99,23%	9
PL	38	1,60%	77,98	1	37	97,37%	2
PT	34	1,43%	74,89	1	33	97,06%	2
SV	40	1,69%	79,85	1	39	97,50%	2
	2370	100.00%	**78.19**	11	2359	**99.54%**	

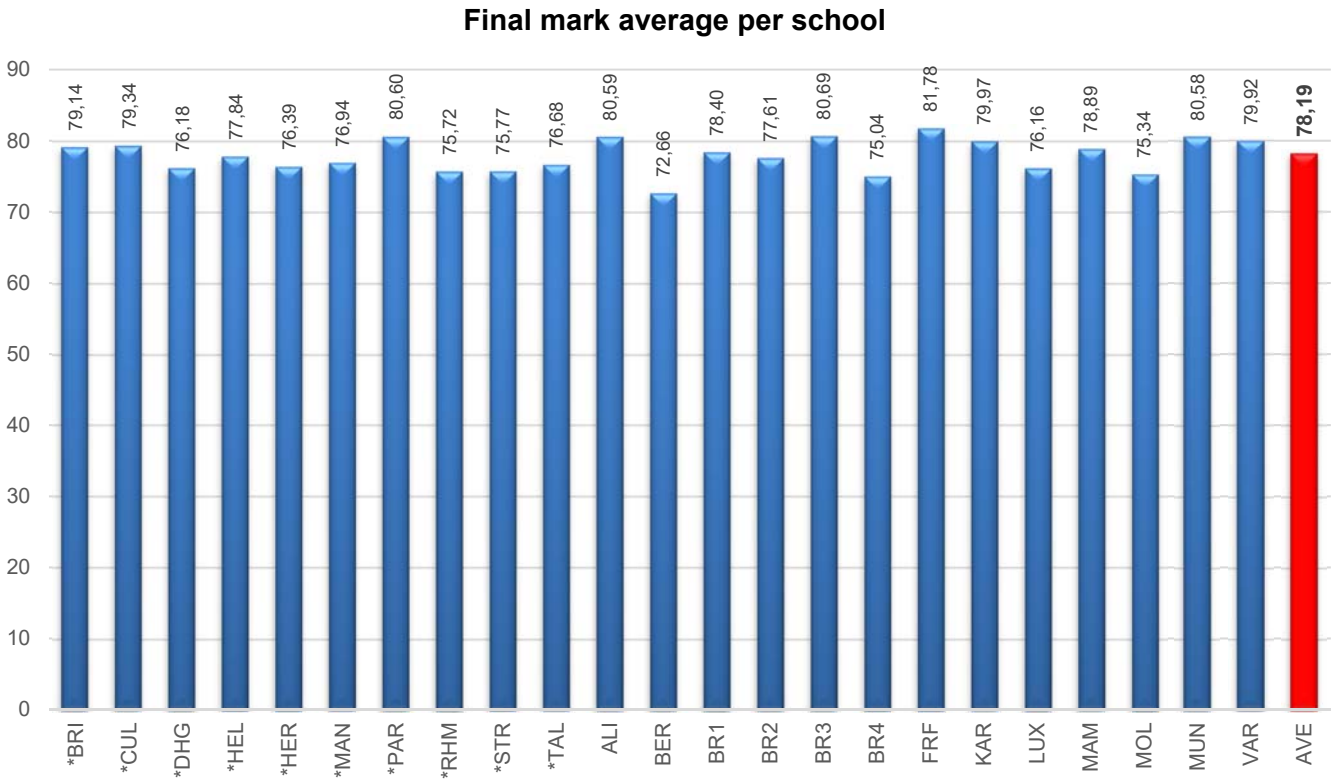
7.2. Final marks and averages

The final overall European Baccalaureate mark is expressed out of one hundred (100) points and is accurate to two decimal places. It must be reminded that due to the introduction of the New Marking System, from EB 2021 the pass mark is no longer 6, but 5 out of 10 (or 50 out of 100 in case of the final EB mark).

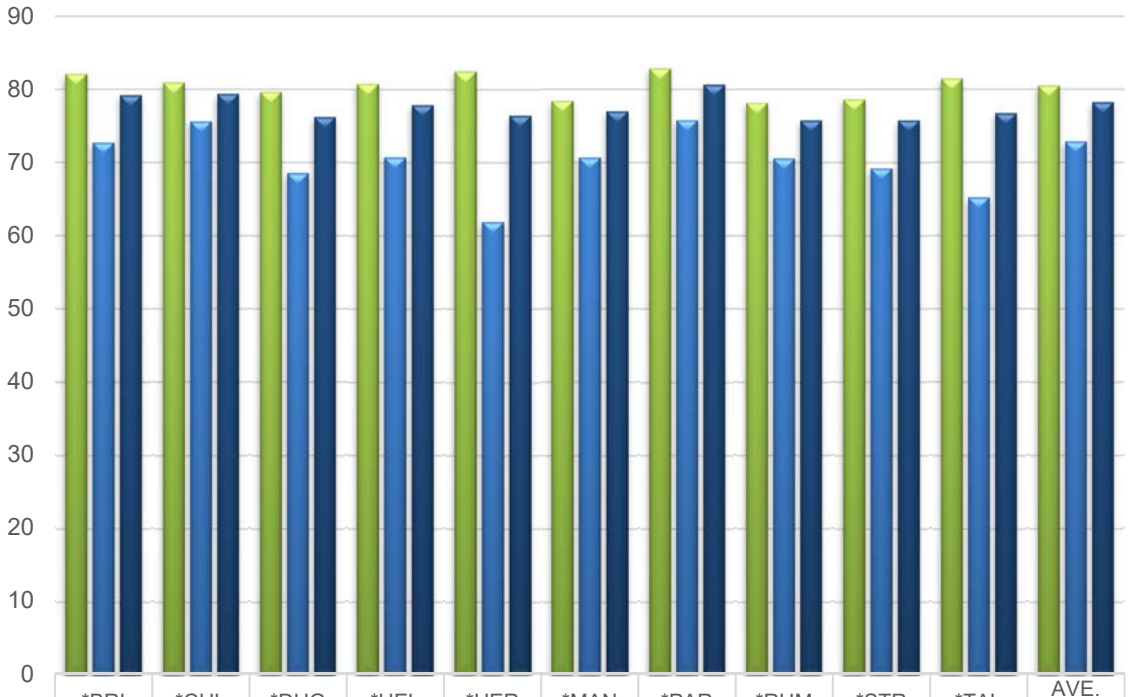
The average Final Mark for all the candidates who were registered for the 2021 session of the European Baccalaureate under the new marking system was amounted to 78.19.



This year the average Final Mark ranged between 72.66 and 81.78 throughout schools:

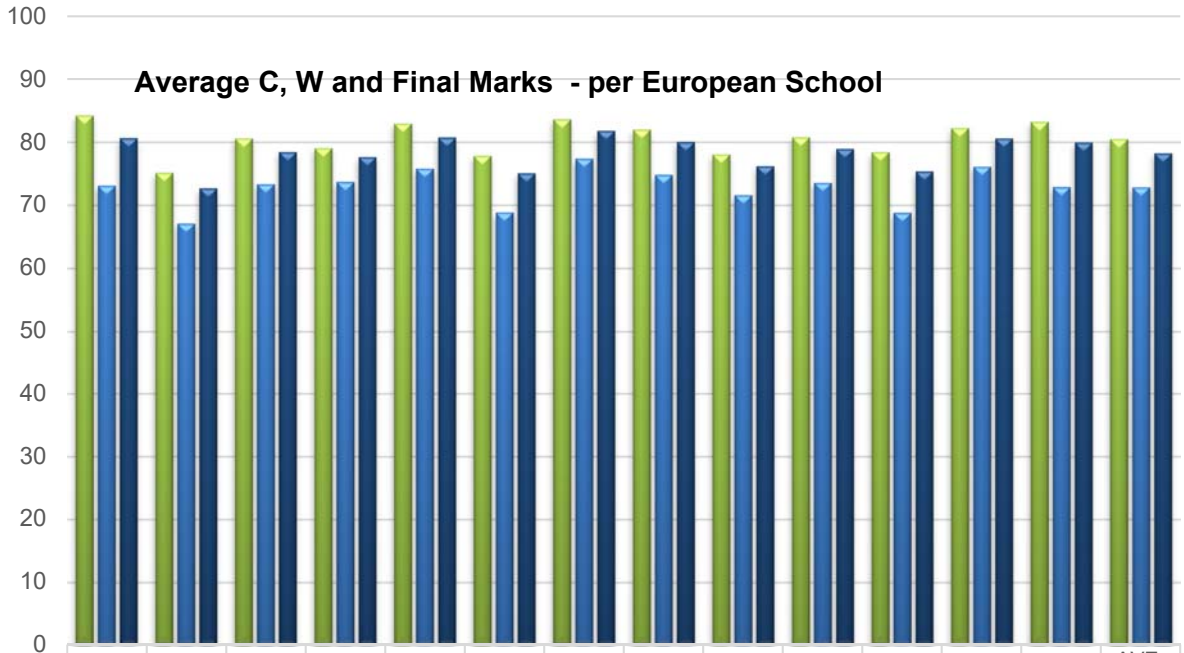


Average C, W and Final Marks - per Accredited European School



	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	AVE. (ALL)
Preliminary mark (C)	82,07	80,87	79,60	80,74	82,44	78,39	82,80	78,11	78,61	81,40	80,44
Written mark (W)	72,67	75,58	68,51	70,70	61,87	70,64	75,75	70,52	69,20	65,19	72,83
Final grade	79,14	79,34	76,18	77,84	76,39	76,94	80,60	75,72	75,77	76,68	78,19

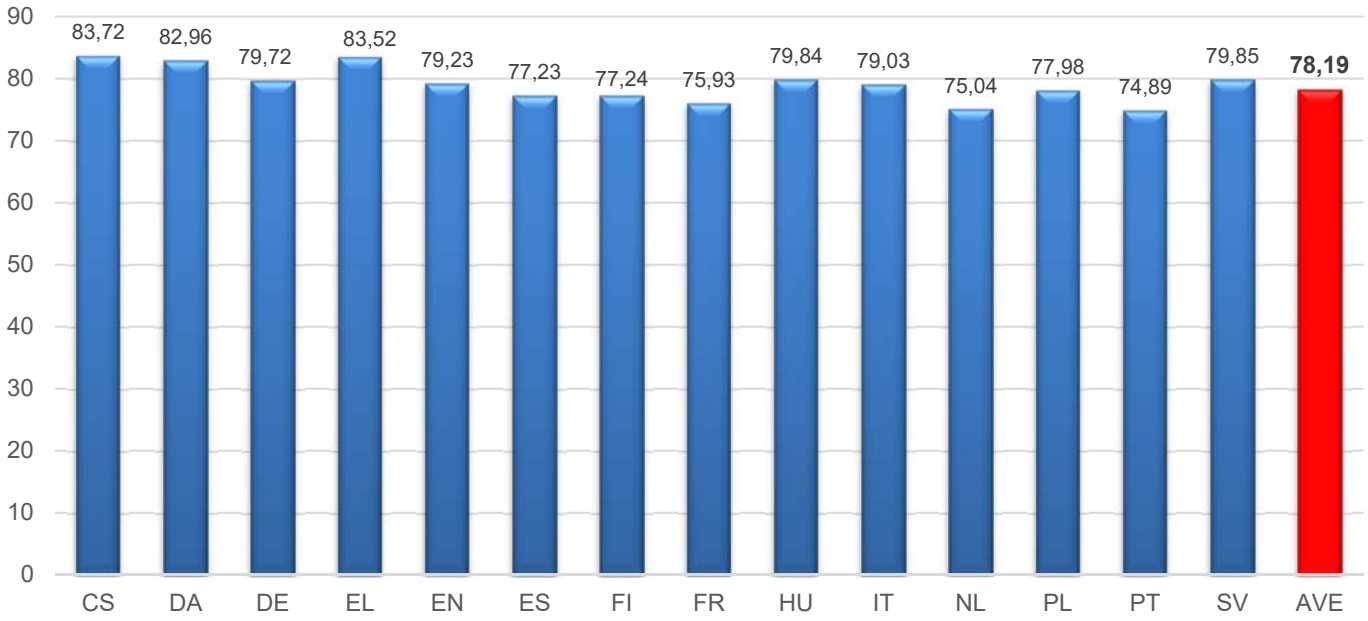
Average C, W and Final Marks - per European School



	ALI	BER	BR1	BR2	BR3	BR4	FRF	KAR	LUX	MAM	MOL	MUN	VAR	AVE. (ALL)
Preliminary mark (C)	84,19	75,11	80,54	79,02	82,91	77,79	83,58	81,95	78,03	80,76	78,37	82,20	83,18	80,44
Written mark (W)	73,07	67,07	73,30	73,68	75,79	68,84	77,37	74,80	71,59	73,55	68,78	76,09	72,86	72,83
Final grade	80,59	72,66	78,40	77,61	80,69	75,04	81,78	79,97	76,16	78,89	75,34	80,58	79,92	78,19

Throughout the Language Sections the average Final Mark ranged between 74.89 and 83.72. Small number of candidates in certain sections does not allow the average to be regarded as statistically significant.

Average Final Mark per linguistic section

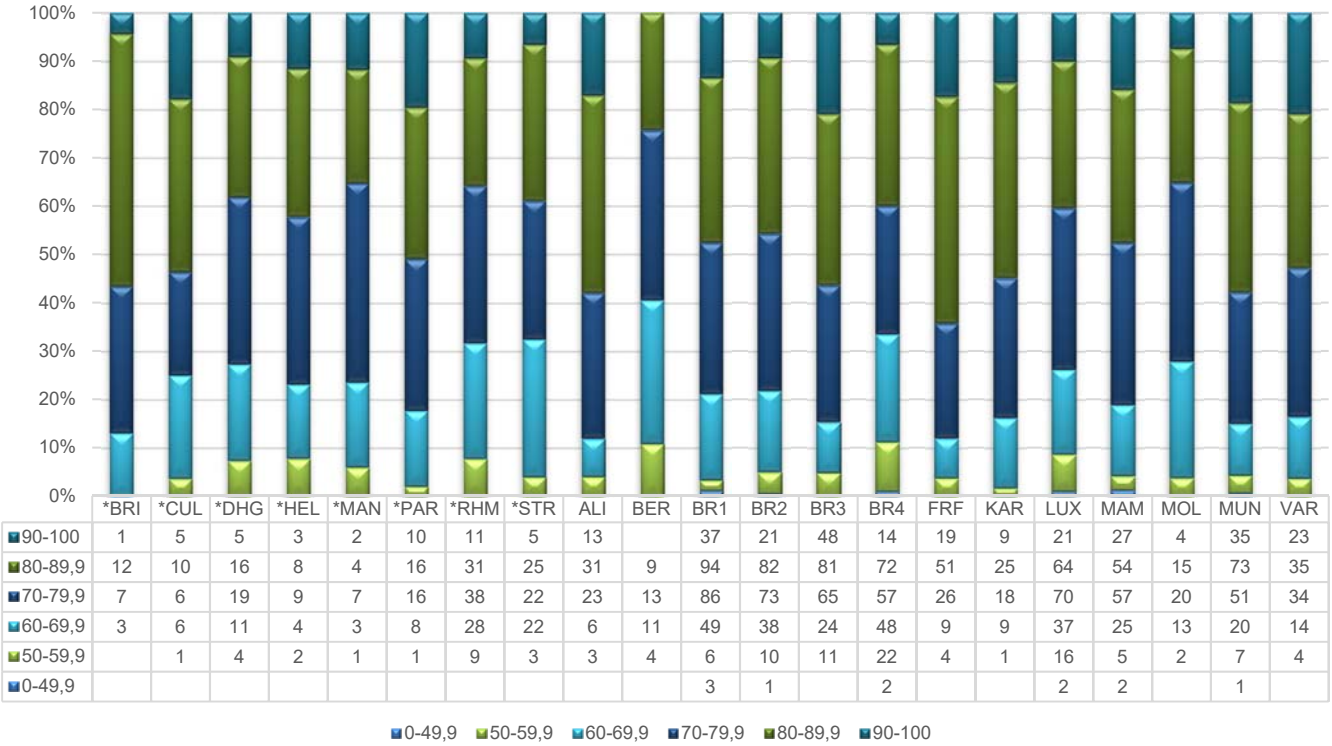


Number of candidates per linguistic section

CS	DA	DE	EL	EN	ES	FI	FR	HU	IT	NL	PL	PT	SV	ALL
10	19	437	70	583	117	49	608	19	216	130	38	34	40	**2370**

The following table shows the distribution of Final Marks, in %, in the different schools[3]:

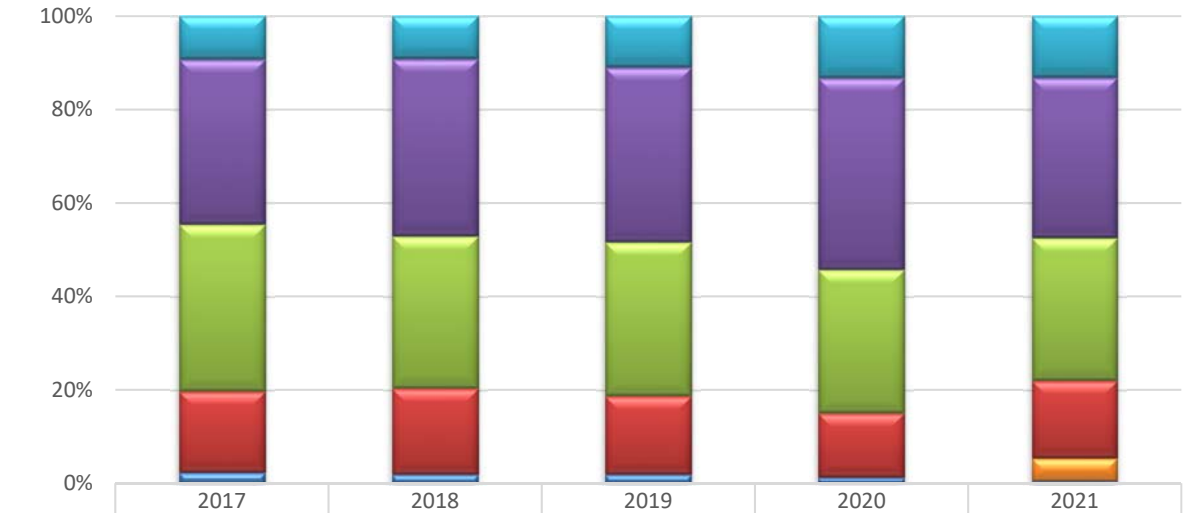
Distribution of final marks



	*BRI	*CUL	*DHG	*HEL	*MAN	*PAR	*RHM	*STR	ALI	BER	BR1	BR2	BR3	BR4	FRF	KAR	LUX	MAM	MOL	MUN	VAR
90-100	1	5	5	3	2	10	11	5	13		37	21	48	14	19	9	21	27	4	35	23
80-89,9	12	10	16	8	4	16	31	25	31	9	94	82	81	72	51	25	64	54	15	73	35
70-79,9	7	6	19	9	7	16	38	22	23	13	86	73	65	57	26	18	70	57	20	51	34
60-69,9	3	6	11	4	3	8	28	22	6	11	49	38	24	48	9	9	37	25	13	20	14
50-59,9		1	4	2	1	1	9	3	3	4	6	10	11	22	4	1	16	5	2	7	4
0-49,9											3	1		2			2	2		1	

Breakdown of final results throughout the past five years[4]

Breakdown of final results



	2017	2018	2019	2020	2021
90-100	9,34%	9,22%	11,03%	13,29%	13,25%
80-89,9	35,34%	38,00%	37,47%	40,97%	34,35%
70-79,9	35,64%	32,47%	32,83%	30,73%	30,42%
60-69,9	17,42%	18,48%	16,83%	13,82%	16,62%
50-59,9					4,89%
0-49,9	2,26%	1,84%	1,84%	1,19%	0,46%

[3] Schools with less than 10 candidates are not shown in the graph because they do not provide relevant statistical information.

[4] Until 2020 the failing range was between 0 and 59,99.

7.3. The Preliminary Marks

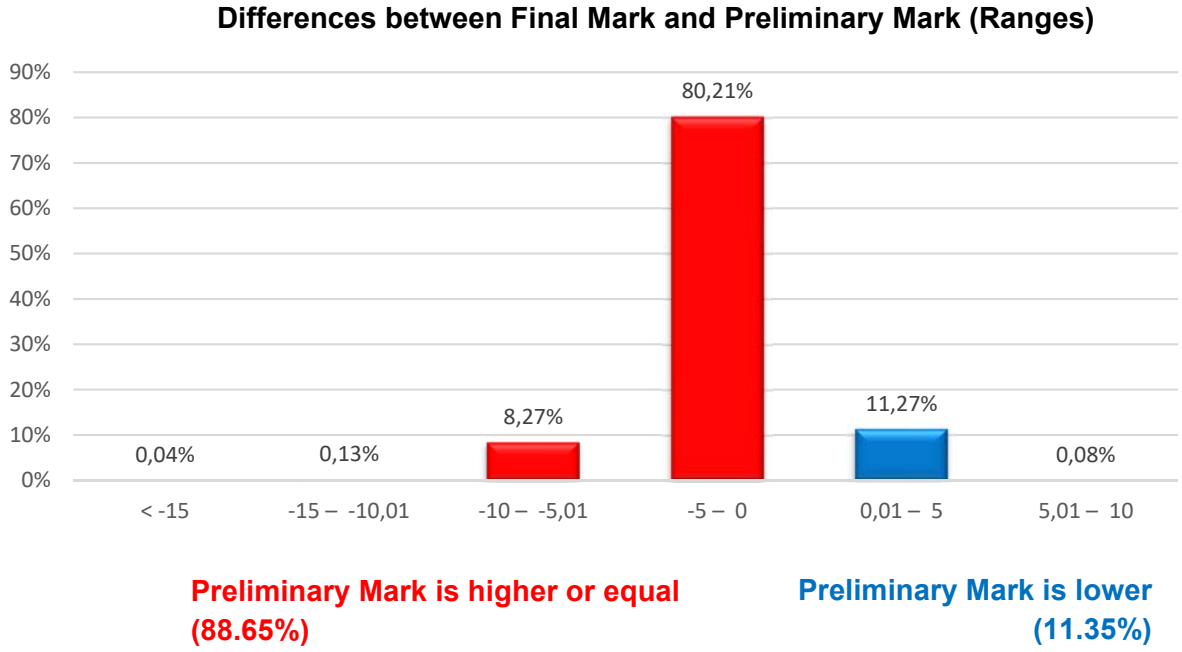
The preliminary mark (C mark) is made up of the following:

- Class marks (A marks): They will account for 20 marks out of 50
- Part examination marks (B marks): They will account for 30 marks out of 50.

7.3.1. Preliminary marks and Final marks

The graph below shows **differences between the Final Mark and the Preliminary Mark** for all pupils who took the European Baccalaureate. A negative difference means that the Preliminary Mark is higher than the Final Mark, and vice-versa.

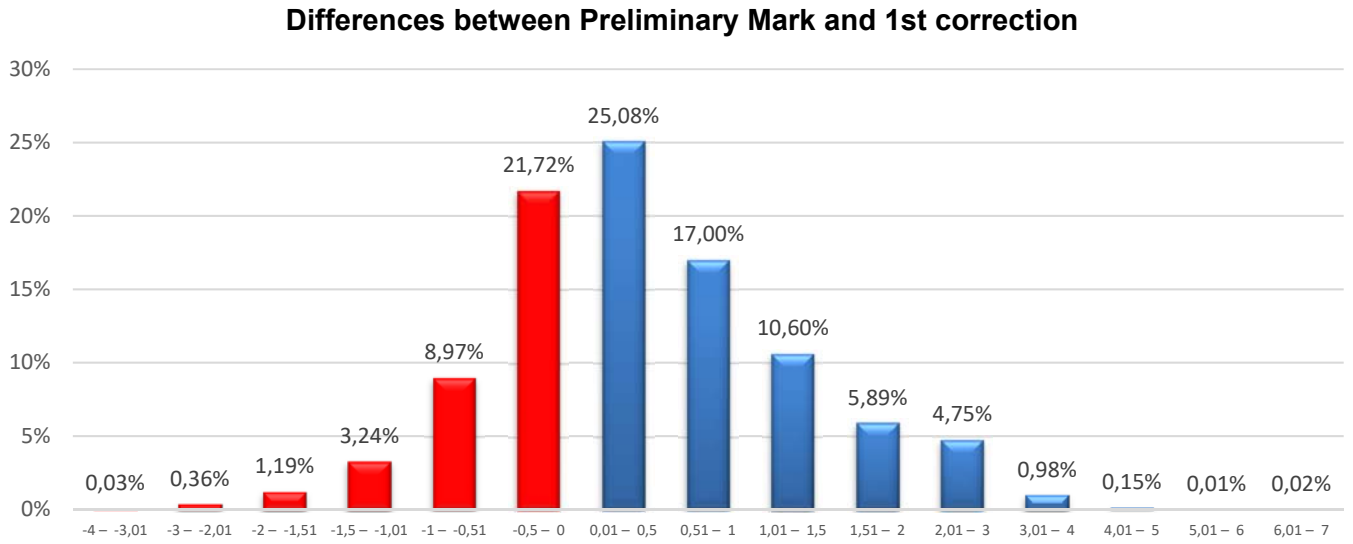
88.65% of the candidates got a higher or equal Preliminary Mark as compared to their Final Mark. However, in 80.21% of the cases the difference was not greater than 5 points. For 91.48% of the candidates, the difference between the Preliminary Mark and Final Mark shows deviation of +/- 5 points out of 100.



Outcome of: Final mark - Preliminary mark:	Candidates
Between -20 and -15,01 points	1
Between -15 and -10,01 points	3
Between -10 and -5,01 points	196
Between -5 and -0,01 points	1898
Exactly 0 points	3
Between 0,01 and 5 points	267
Between 5,01 and 10 points	2
	2270

7.3.2. Differences between Preliminary Mark and First Correction

The marks considered in this section only concern the marks given by the teacher.



The teacher's written exam mark is higher or equal than the Preliminary one (35.52%)

The Preliminary mark is higher than the teacher's written exam mark (64.48%)

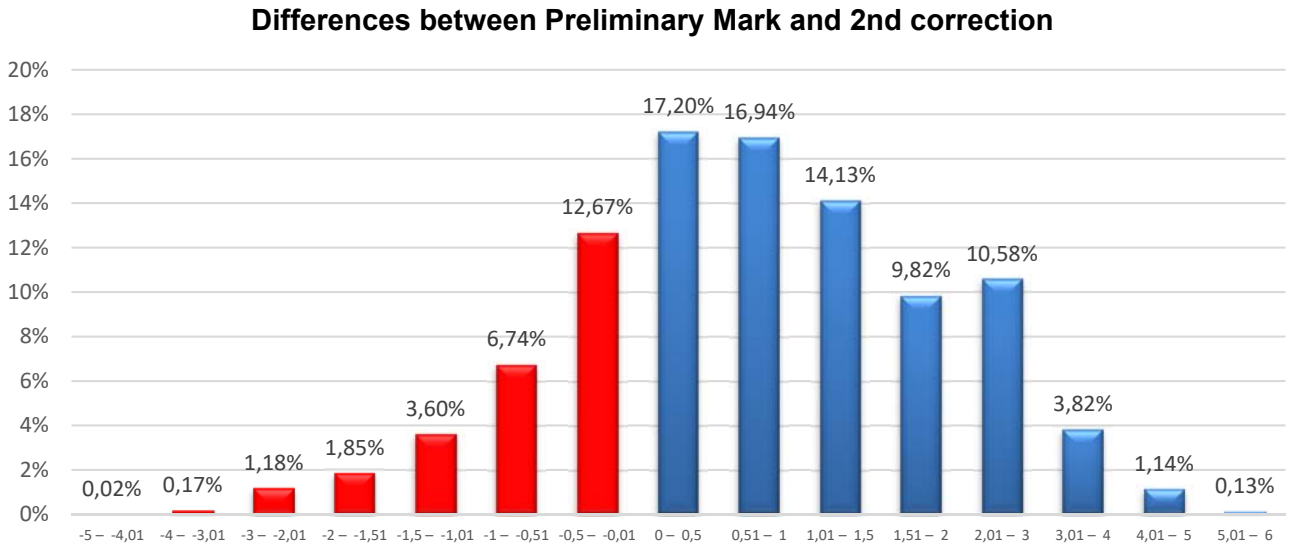
Outcome of: Preliminary mark – 1st correction	Examinations
Between -4 and -3,01 points	4
Between -3 and -2,01 points	43
Between -2 and -1,51 points	141
Between -1,50 and -1,01 points	385
Between -1 and -0,51 points	1065
Between -0,50 and -0,01 points	2422
Exactly 0 points	156
Between 0,01 and 0,50 points	2977
Between 0,51 and 1 point	2018
Between 1,01 and 1,50 points	1258
Between 1,51 and 2 points	699
Between 2,01 and 3 points	564
Between 3,01 and 4 points	116
Between 4,01 and 5 points	18
Between 5,01 and 6 points	1
Between 6,01 and 7 points	2
	11869[5]

It can be observed here that the variation of marks is greater. For around 47% of the cases, the variation is +/- 0.5 points and for around 73% of the cases the variation is +/- 1 point[6].

Around 36% of the examinations received higher marks from their teachers in the written examinations as compared to the preliminary mark. In 1.31% of the cases, the candidate obtained the exact same mark at both Preliminary and first marks written examination.

[5] Additional Examinations which did not have a preliminary mark were not take into consideration.
[6] Points calculated out of 10 points.

7.3.3. Differences between Preliminary Mark and Second Correction



Second examiner gave a higher mark than the Preliminary mark (26.22%)

Preliminary mark is higher or equal than the second examiner's mark (73.78%)

Outcome of: Preliminary mark – 2nd correction	Examinations
Between -5 and -4,01 points	2
Between -4 and -3,01 points	20
Between -3 and -2,01 points	140
Between -2 and -1,51 points	219
Between -1,50 and -1,01 points	427
Between -1 and -0,51 points	800
Between -0,50 and -0,01 points	1427
Exactly 0 points	77
Between 0,01 and 0,50 points	2042
Between 0,51 and 1 point	2011
Between 1,01 and 1,50 points	1677
Between 1,51 and 2 points	1166
Between 2,01 and 3 points	1256
Between 3,01 and 4 points	453
Between 4,01 and 5 points	135
Between 5,01 and 6 points	15
Between 6,01 and 7 points	2
	11869[7]

It can be observed here as well that the variation of marks is large. For around 30% of the cases, the variation is +/- 0.5 and for around 54% of the cases the variation is +/- 1.

Around 26% of the pupils receive higher marks from the second examiners in the written examinations as compared to the preliminary mark.

In 0.65% of the cases, the pupils obtained the exact same mark at both Preliminary and external examiners' written examination marks.

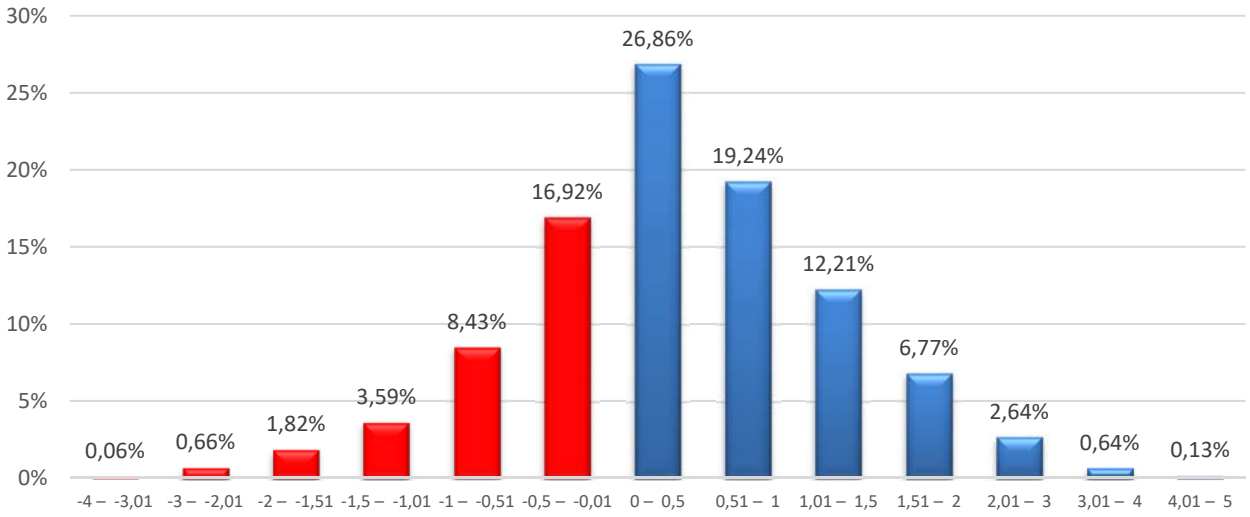
[7] Additional Examinations which did not have a preliminary mark were not take into consideration.

7.4. The Written Correction Marks

7.4.1. Differences between First Correction and Second Correction

71.83% of candidates received a higher mark from their first corrector, the teacher.

Differences between 1st correction and 2nd correction



Second examiner gave a higher mark for the examination (28.17%)

Teacher gave a higher or equal mark for the examination (71.83%)

Outcome of: 1st correction - 2nd correction	Examinations
Between -4 and -3,01 points	7
Between -3 and -2,01 points	78
Between -2 and -1,51 points	216
Between -1,50 and -1,01 points	426
Between -1 and -0,51 points	1001
Between -0,50 and -0,01 points	1616
Exactly 0 points	392
Between 0,01 and 0,50 points	3189
Between 0,51 and 1 point	2284
Between 1,01 and 1,50 points	1450
Between 1,51 and 2 points	804
Between 2,01 and 3 points	313
Between 3,01 and 4 points	76
Between 4,01 and 5 points	16
Between 5,01 and 6 points	3
	11871

In 3.30% of the cases, the candidates obtained the exact same marks at both teacher and external examiner's written examination correction.

It can also be said that:

In 43.78% of the cases, the candidates achieved a mark, first and second correction, with a variation of +/- 0.5 point.

In 71.45% of the cases, the candidates achieved a mark, first and second correction, with a variation of +/- 1 point.

In 87.25% of the cases, the candidates achieved a mark, first and second correction, with a variation of +/- 1.5 points.

493 third corrections had thus to be performed.

- Written mark #3 – Written mark #1 = average of -1.20 points
- Written mark #3 – Written mark #2 = average of +0.62 points

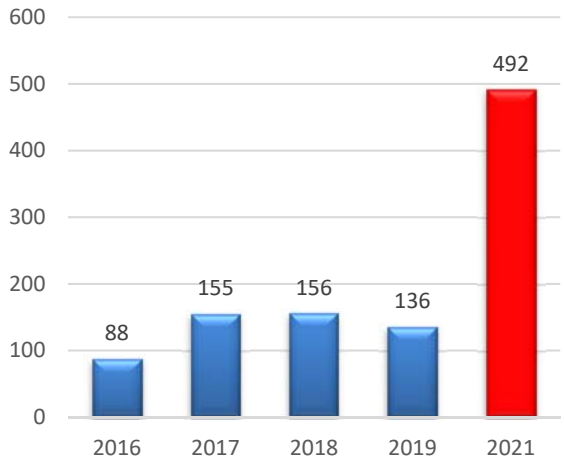
7.4.2. Third corrections

Out of 11876 scripts, 492 scripts were submitted to a third correction, i.e. 4.14% of the total scripts corrected.

The tables below indicate the distribution of the 492 third corrections, per school and per subject, with the detail of the language.

School	3rd corrections performed	Total scripts	%
*BRI	13	115	11.30%
*CUL	6	140	4.29%
*DHG	13	275	4.73%
*HEL	5	130	3.85%
*HER	3	45	6.67%
*MAN	0	85	0.00%
*PAR	6	255	2.35%
*RHM	33	585	5.64%
*STR	15	385	3.90%
*TAL	1	40	2.50%
ALI	19	381	4.99%
BER	4	189	2.12%
BR1	36	1376	2.62%
BR2	27	1127	2.39%
BR3	38	1147	3.31%
BR4	42	1076	3.90%
FRF	27	545	4.95%
KAR	15	310	4.84%
LUX	63	1051	5.99%
MAM	42	854	4.92%
MOL	28	274	10.22%
MUN	27	936	2.88%
VAR	29	550	5.27%
TOTAL	**492**	**11871**	**4.14%**

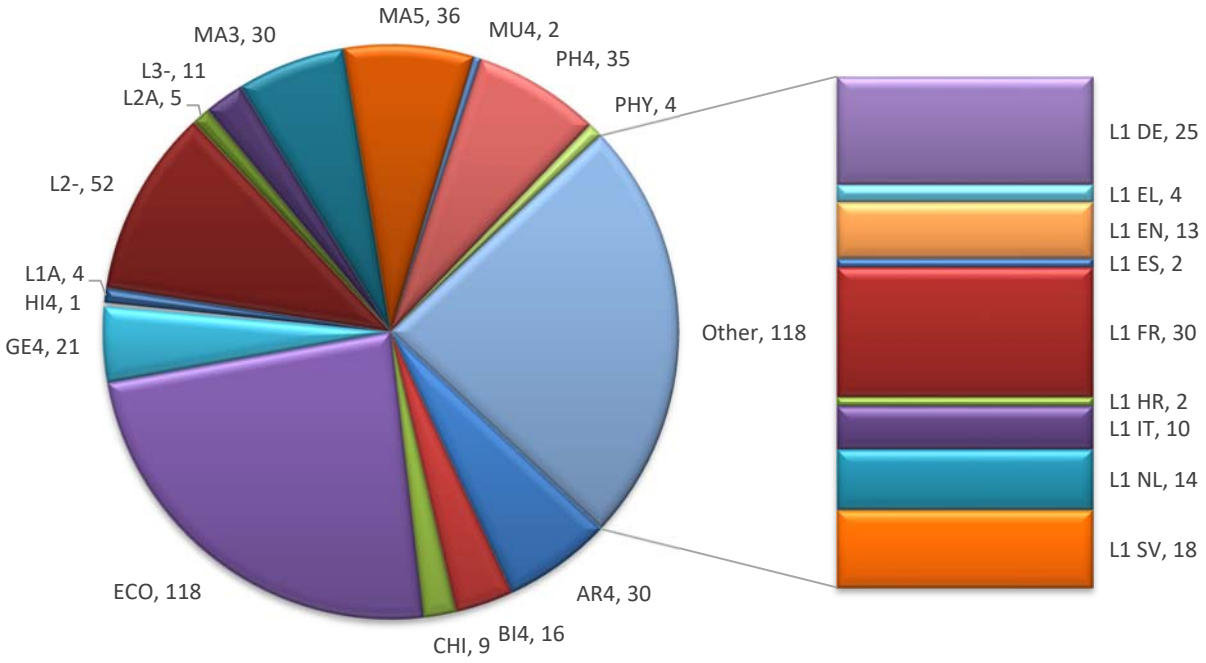
Evolution of third corrections EB sessions 2016-2021



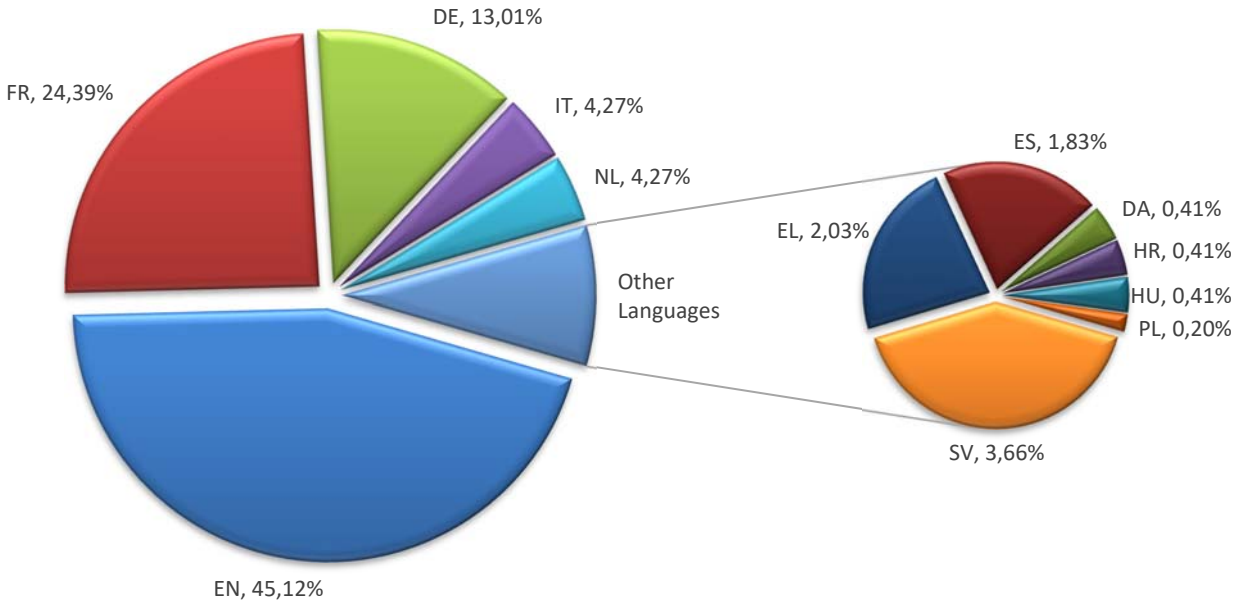
Subject	Languages	Total scripts	3rd correct	%
AR4	DE (1), EN (20), FR (9)	303	30	9.90%
BI4	EN (3), ES (4), FR (6), IT (2), PL (1)	506	16	3.16%
CHI	EN (6), IT (3)	616	9	1.46%
ECO	DE (10), EN (90), FR (18)	524	118	22.52%
GE4	DE (3), EN (17), FR (1)	439	21	4.78%
GRE		2	0	0.00%
HI4	EN (1)	442	1	0.23%
L1-	DE (25), EL (4), EN (13), ES (2), FR (30), HR (2), IT (10), NL (14), SV (18)	2259	118	5.22%
L1A	FR (2), IT (1), NL (1)	112	4	3.57%
L2-	DE (7), EN (33), FR (12)	2236	52	2.37%
L2A	EN (5)	135	5	3.70%
L3-	EN (3), FR (8)	677	11	1.62%
L4-		327	0	0.00%
LAT		12	0	0.00%
MA3	DE (7), EN (3), FR (17), HU (2), IT (1)	1310	30	2.29%
MA5	DA (2), DE (2), EL (6), EN (4), ES (3), FR (14), IT (1), NL (4)	1061	36	3.39%
MU4	DE (1), EN (1)	23	2	8.70%
ONL		2	0	0.00%
PH4	DE (7), EN (20), FR (3), IT (3), NL (2)	248	35	14.11%
PHY	DE (1), EN (3)	642	4	0.62%
Total		**11871**	**492**	**4.14%**

In 2021 there was a significant increase of the amount of third corrections. There was thus a bigger number of scripts to re-correct in comparison to previous years

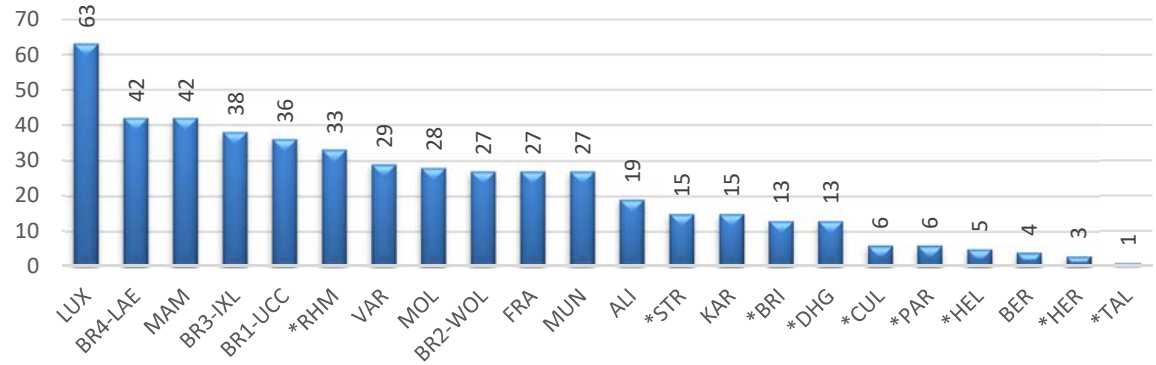
Distribution of the 492 third corrections BACC 2021



% of 3rd corrections regards to the language of the examination



Number of 3rd corrections by school (492)



7.4.3. Marks disagreement

A written examination script is deemed successful for the pupil if it was granted at least the minimum mark of 5 out of 10 (pass mark).

Marks disagreement designates the very specific case occurring when, for a same script, one examiner considers the script as being in line with the correction criteria pass mark, whereas the other examiner judges it as insufficient and not in compliance with the pass mark criteria.

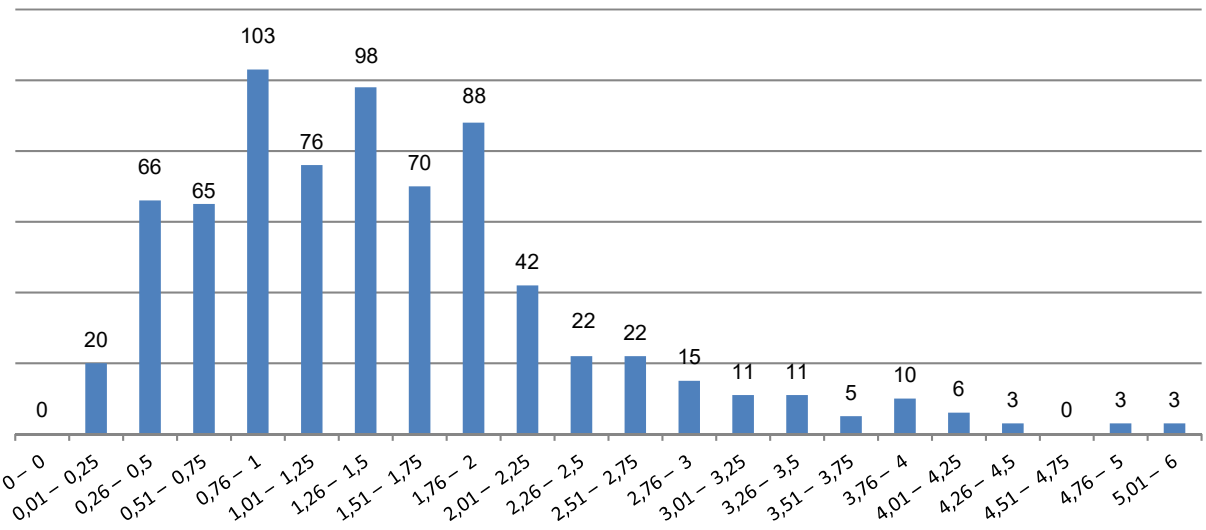
When comparing the written examination marks given by the teachers / first correctors, and external examiners / second correctors, for the 11871 scripts of the EB session 2021, the following can be observed:

	Number of scripts		**Third corrections involved**				
	number of scripts	**%**	number of scripts	%			
Teacher gave 5 or more	10853	91.50%	458	4.22%			
External Examiner gave 5 or more	10386	87.56%	341	3.28%			
Teacher gave 4,99 or less	1008	8.50%	35	3.47%			
External Examiner gave 4,99 or less	1475	12.44%	152	10.31%			
					Average W1	**Average W2**	**Average W3**
Teacher passed the script, external examiner failed the script	603	5.08%	135	22.39%	5.85	4.31	5.16
Teacher failed the script, **external examiner passed** the script	136	1.15%	18	13.24%	4.37	5.72	5.11

For 739 scripts, i.e. 6.23% of the total scripts, a mark disagreement was observed during last session.

In 153 cases the difference between the two marks was higher than 2 marks, meaning that 20.70% of the 739 disputed scripts were thus submitted to a third correction. The highest difference was of 5.3 points.

Absolute value of difference between first and second correction for mark disagreement (739 scripts)

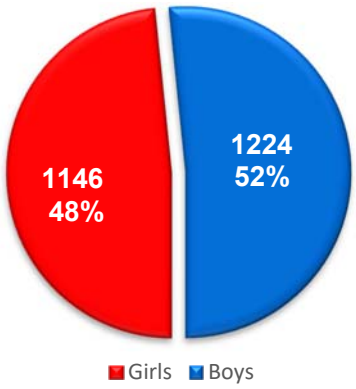


7.5. Gender differences

Female candidates score a higher final mark than the general average, as it can be observed in the graph.

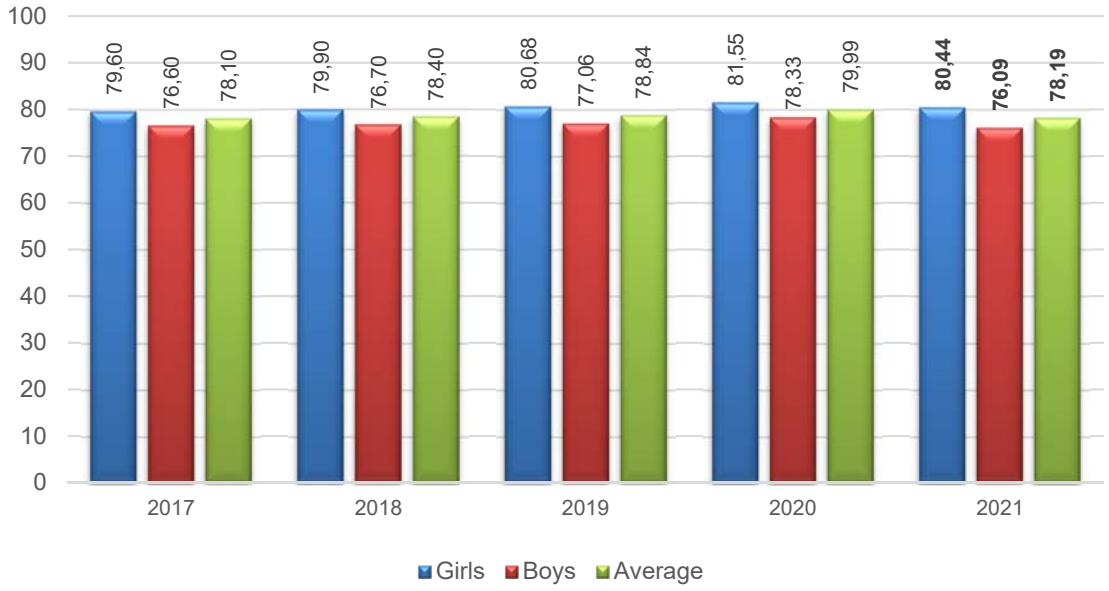
Final mark Average per gender

Gender of the candidates

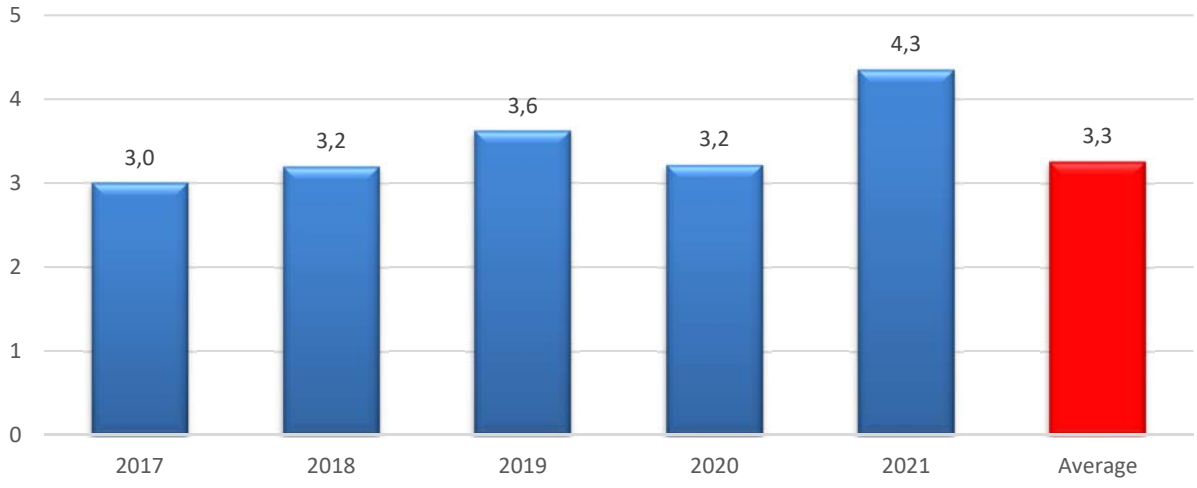


This is a general trend in the last 5 years:

Final mark Average per gender 2017-2021

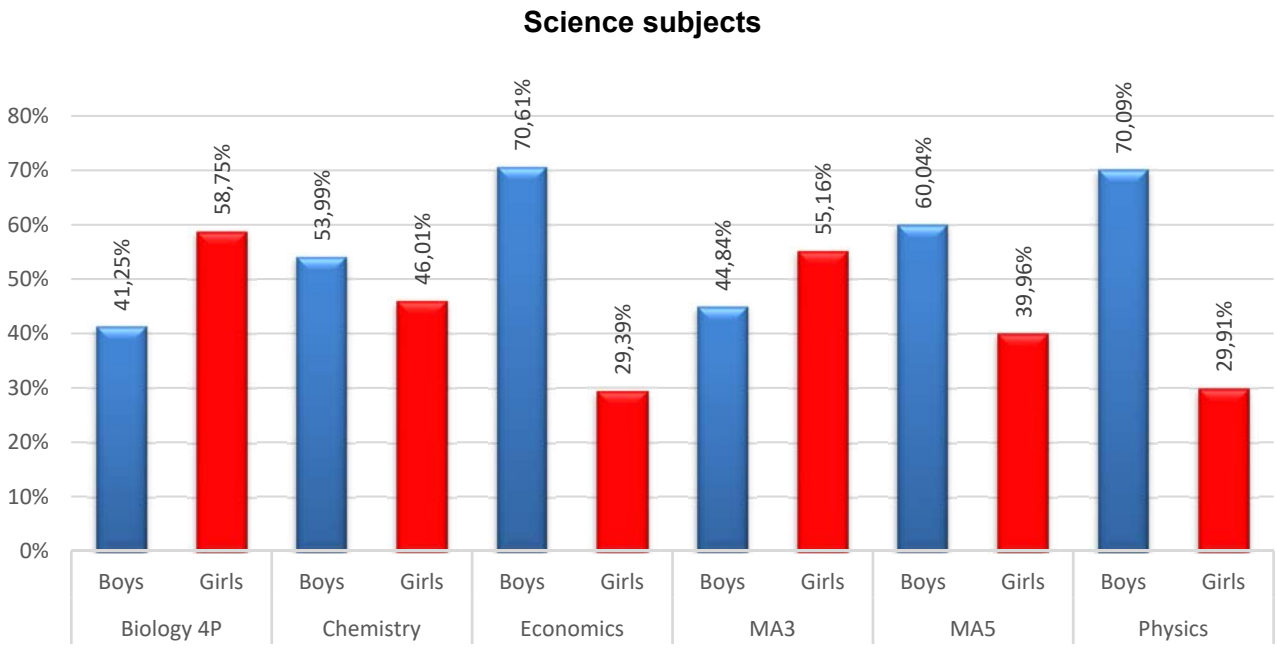


Difference in Average final marks between genders, 2017-2021



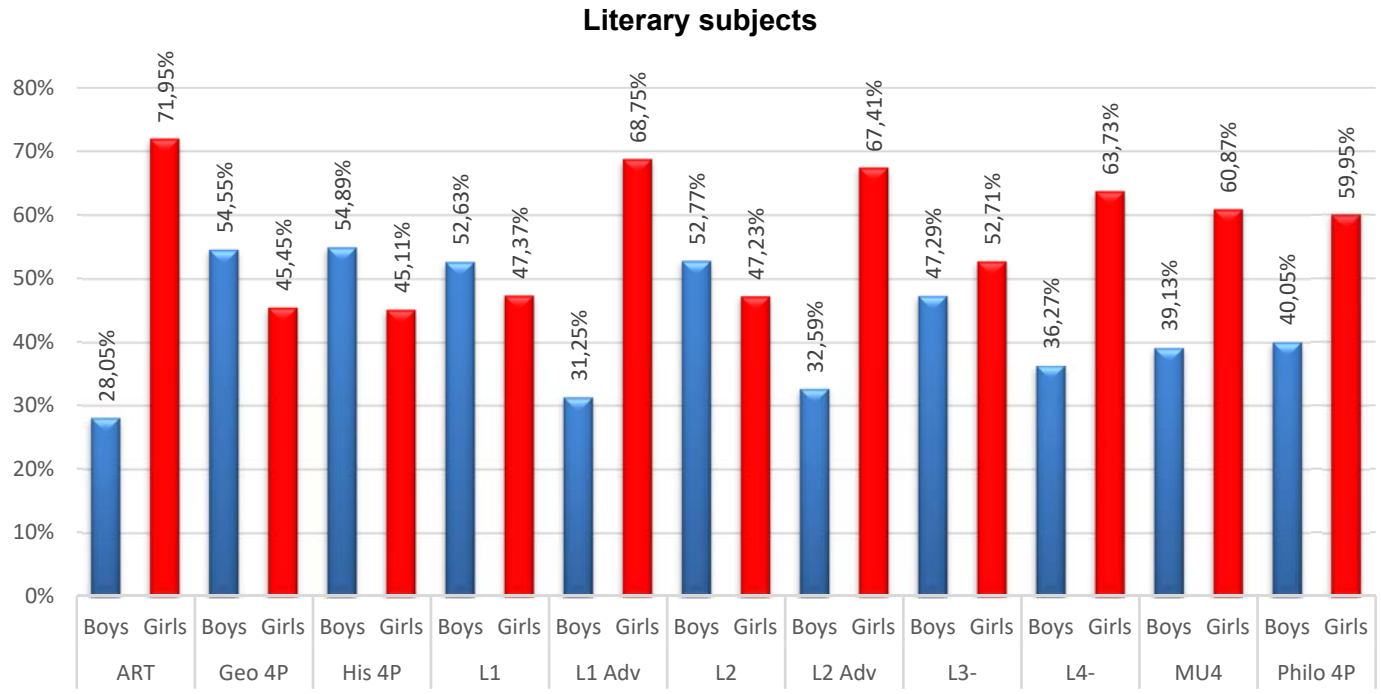
Here below, the choices of options and written average, per gender:

Scientific Subjects	Gender	Number of candidates	Written Average	Percentage
BI4	Boys	283	6,73	41,25%
	Girls	403	7,26	58,75%
	Total	686	7,07	
CHI	Boys	365	6,55	53,99%
	Girls	311	6,86	46,01%
	Total	676	6,69	
ECO	Boys	370	6,44	70,61%
	Girls	154	7,14	29,39%
	Total	524	6,64	
MA3	Boys	587	5,74	44,84%
	Girls	722	6,21	55,16%
	Total	1309	6,00	
MA5	Boys	637	6,45	60,04%
	Girls	424	6,43	39,96%
	Total	1061	6,45	
PHY	Boys	471	7,29	70,09%
	Girls	201	7,49	29,91%
	Total	672	7,35	



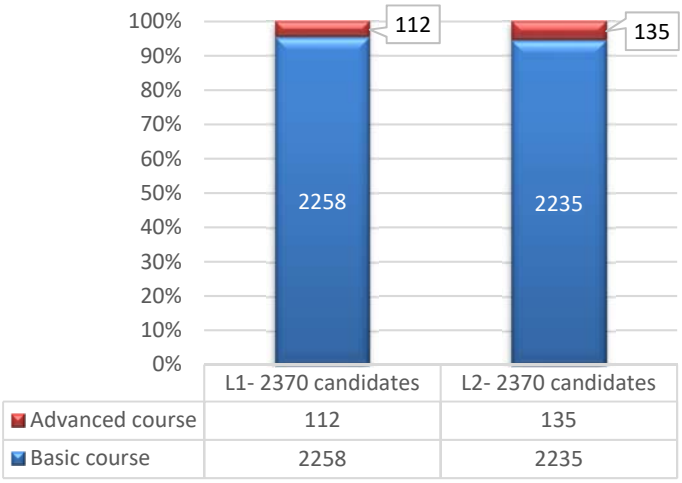
Literary Subjects	Gender	Number of candidates	Written Average	Percentage
AR4	Boys	85	7,82	28,05%
	Girls	218	8,43	71,95%
	Total	303	8,26	
GE4	Boys	270	7,01	54,55%
	Girls	225	7,38	45,45%
	Total	495	7,17	
HI4	Boys	264	7,41	55,00%
	Girls	216	7,57	45,00%
	Total	480	7,48	
MU4	Boys	9	6,44	39,13%
	Girls	14	7,67	60,87%
	Total	23	7,19	
PH4	Boys	161	7,63	40,15%
	Girls	240	7,70	59,85%
	Total	401	7,67	

Literary Subjects	Gender	Number of candidates	Written Average	Percentage
L1-	Boys	1189	7,15	52,66%
	Girls	1069	7,68	47,34%
	Total	2258	7,40	
L1 Adv	Boys	35	7,35	31,25%
	Girls	77	8,04	68,75%
	Total	112	7,82	
L2-	Boys	1180	7,88	52,80%
	Girls	1055	8,15	47,20%
	Total	2235	8,00	
L2 Adv	Boys	44	7,51	32,59%
	Girls	91	8,20	67,41%
	Total	135	7,98	
L3-	Boys	463	7,96	47,29%
	Girls	516	8,16	52,71%
	Total	979	8,06	
L4-	Boys	144	8,22	36,27%
	Girls	253	8,29	63,73%
	Total	397	8,27	

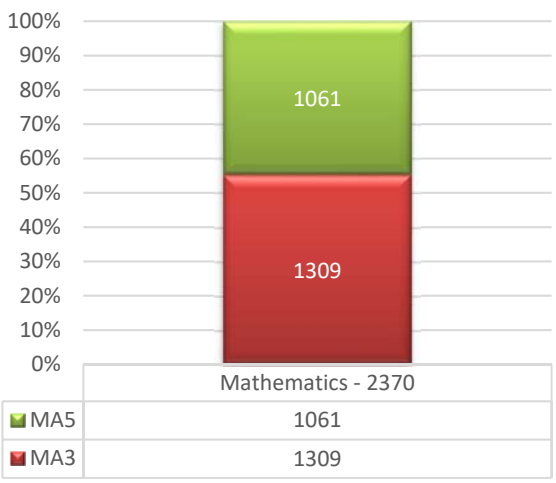


7.6. European Baccalaureate examinations and most popular written and oral examination options

Compulsory Written examinations – 2370 candidates

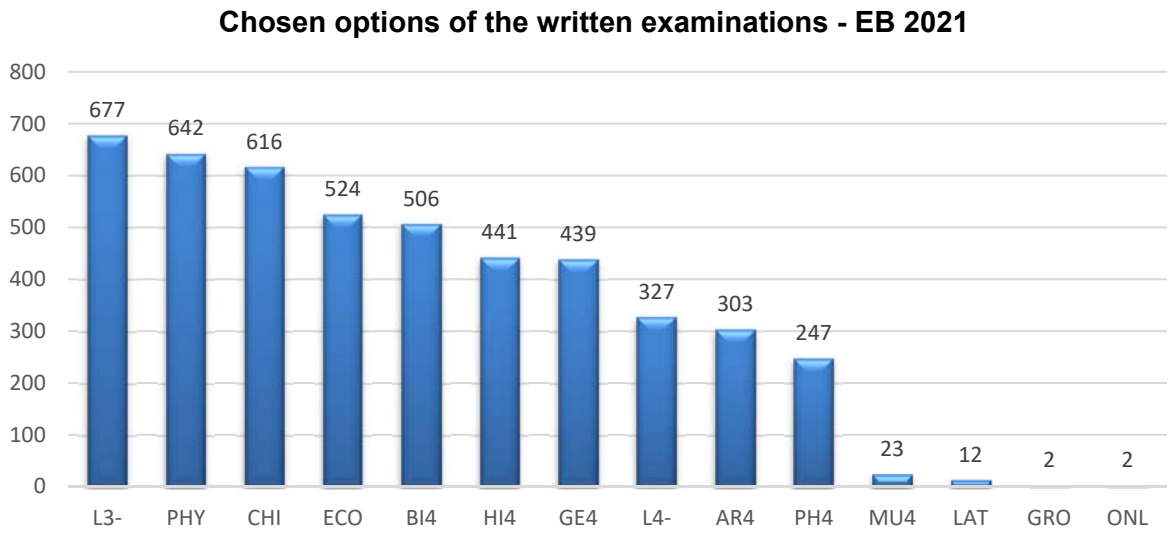


	L1- 2370 candidates	L2- 2370 candidates
Advanced course	112	135
Basic course	2258	2235

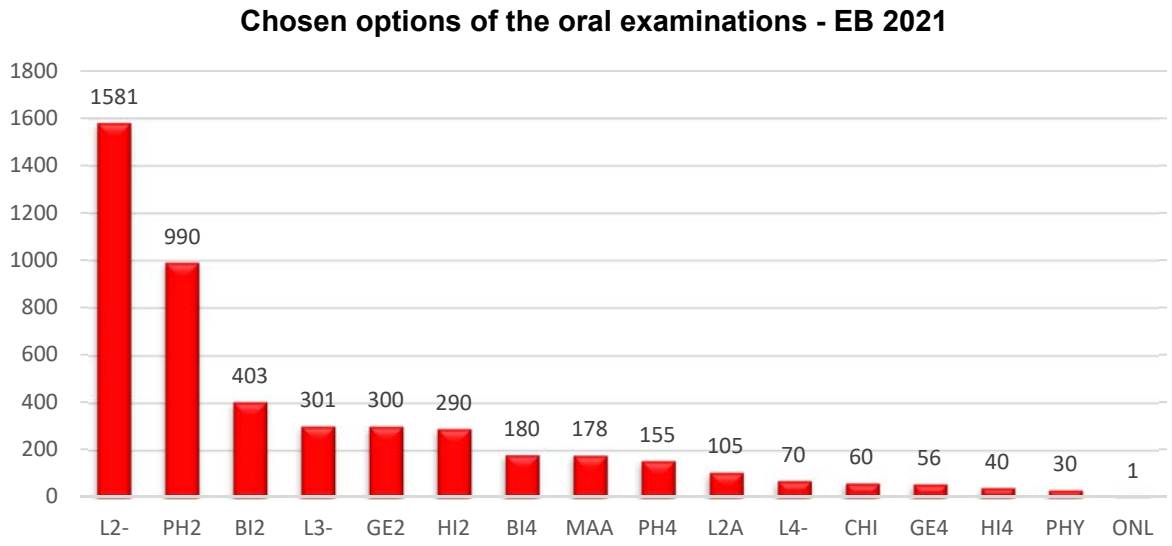


	Mathematics - 2370
MA5	1061
MA3	1309

Options written examinations: 4761 scripts (2370 x 2 options = 4740 + 21 add. exams)



Options oral examinations: 4740 orals (2370 x 2 = 4740 oral examinations)

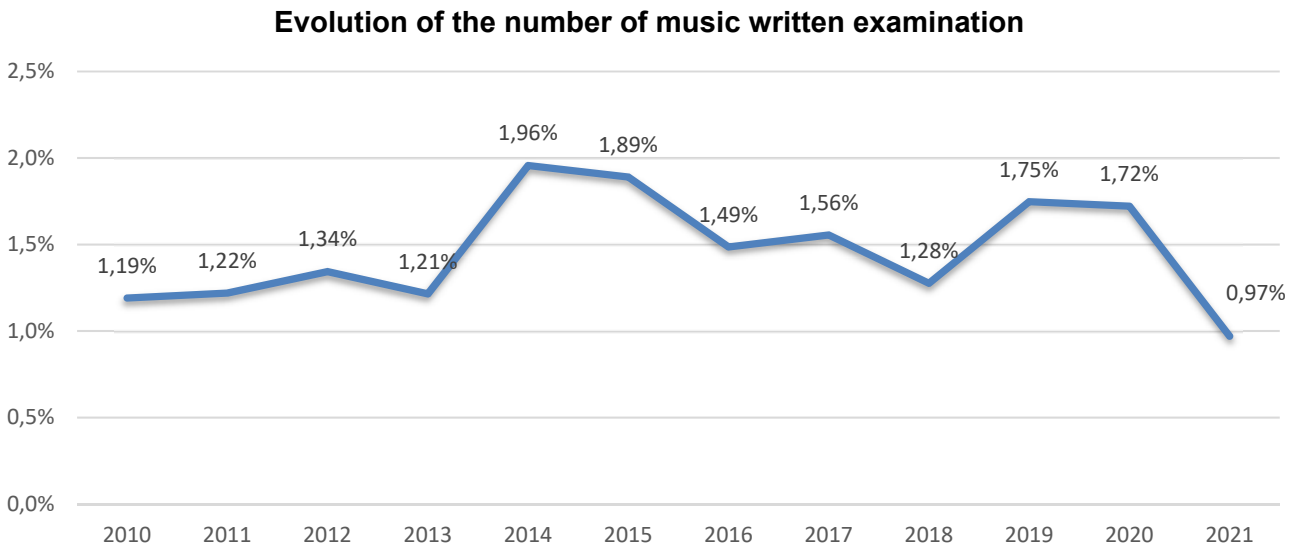


7.6.1. Most common chosen written subjects

The five most chosen options for the written examinations this year were: Language III (EN 239, ES 148, FR 141, IT 58, DE 52, NL 37, FI 1 and SV 1), Physics, Chemistry, Economics and Biology.

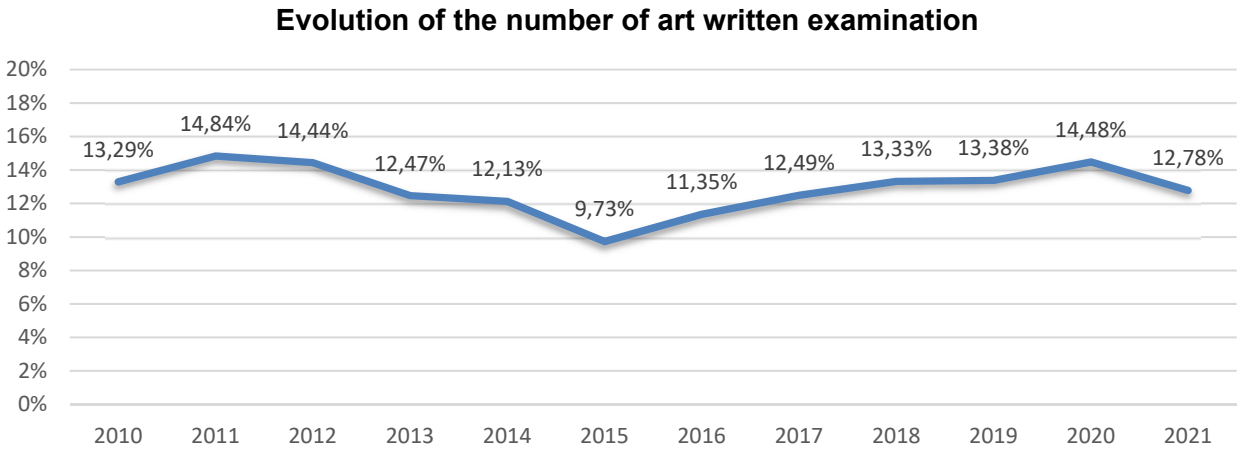
Options of written examinations	Number of candidates BAC 2019	Percentage of candidates BAC 2019	Number of candidates BAC 2020	Percentage of candidates BAC 2020	**Number of candidates BAC 2021**	**Percentage of candidates BAC 2021**
LANGUAGE III	689	31.68%	**727**	32.10%	**677**	**28.55%**
PHYSICS	584	26.85%	**696**	30.73%	**642**	**27.08%**
CHEMISTRY	554	25.47%	**585**	25.83%	**616**	**25.98%**
ECONOMICS	461	21.20%	**481**	21.24%	**524**	**22.10%**
BIOLOGY 4	514	23.63%	**496**	21.90%	**506**	**21.34%**

Art and Music are among the least popular written examinations. The number of written examinations in Musical education and Art education decreased this year in comparison to previous years.



Number of candidates per year who chose Musical education as a written option:

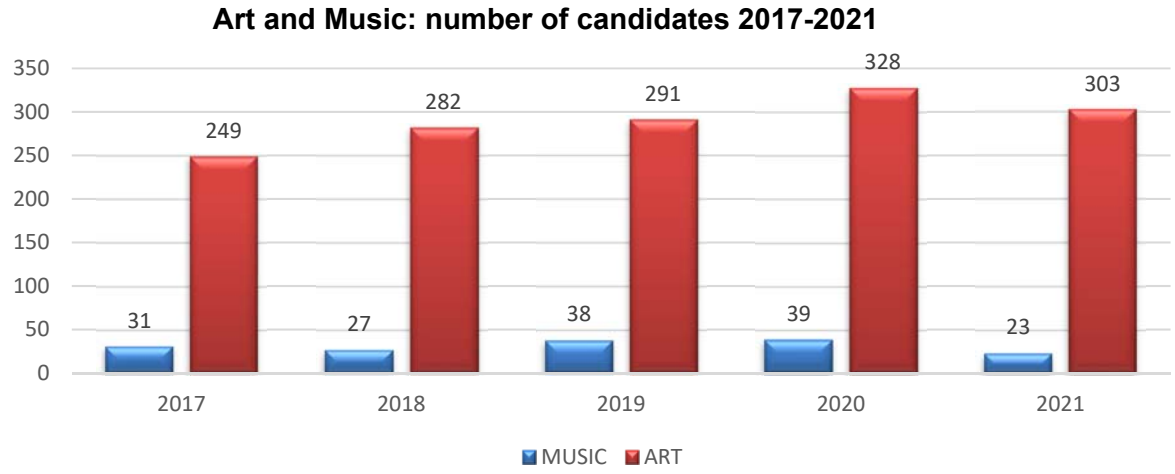
2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
18	18	20	19	35	34	28	31	27	38	39	23

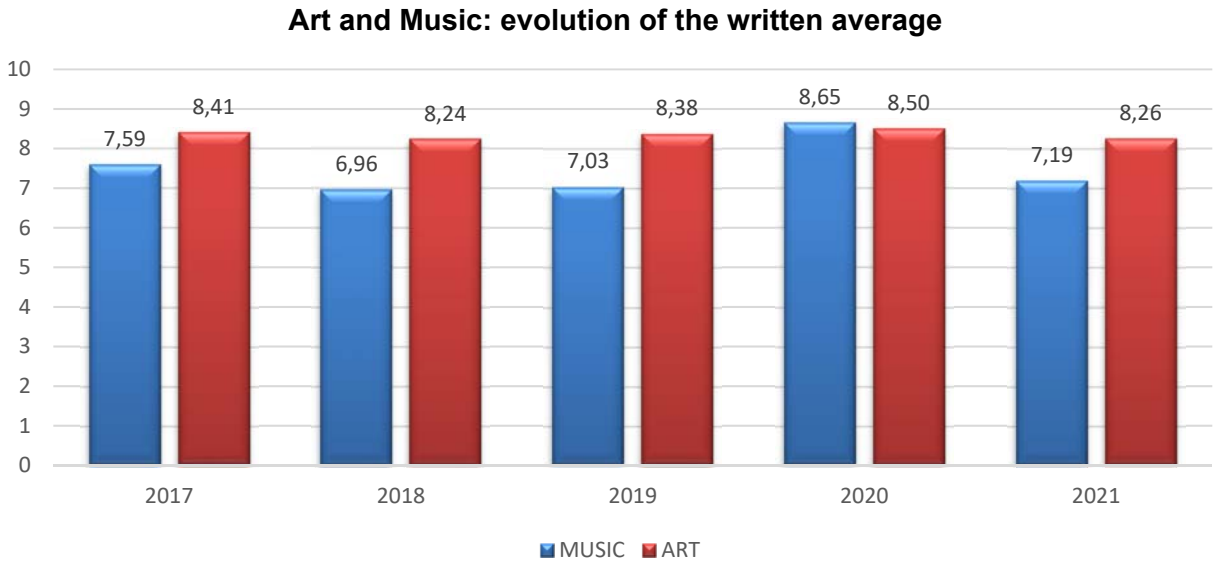


Number of candidates per year who chose the Artistic education as a written option:

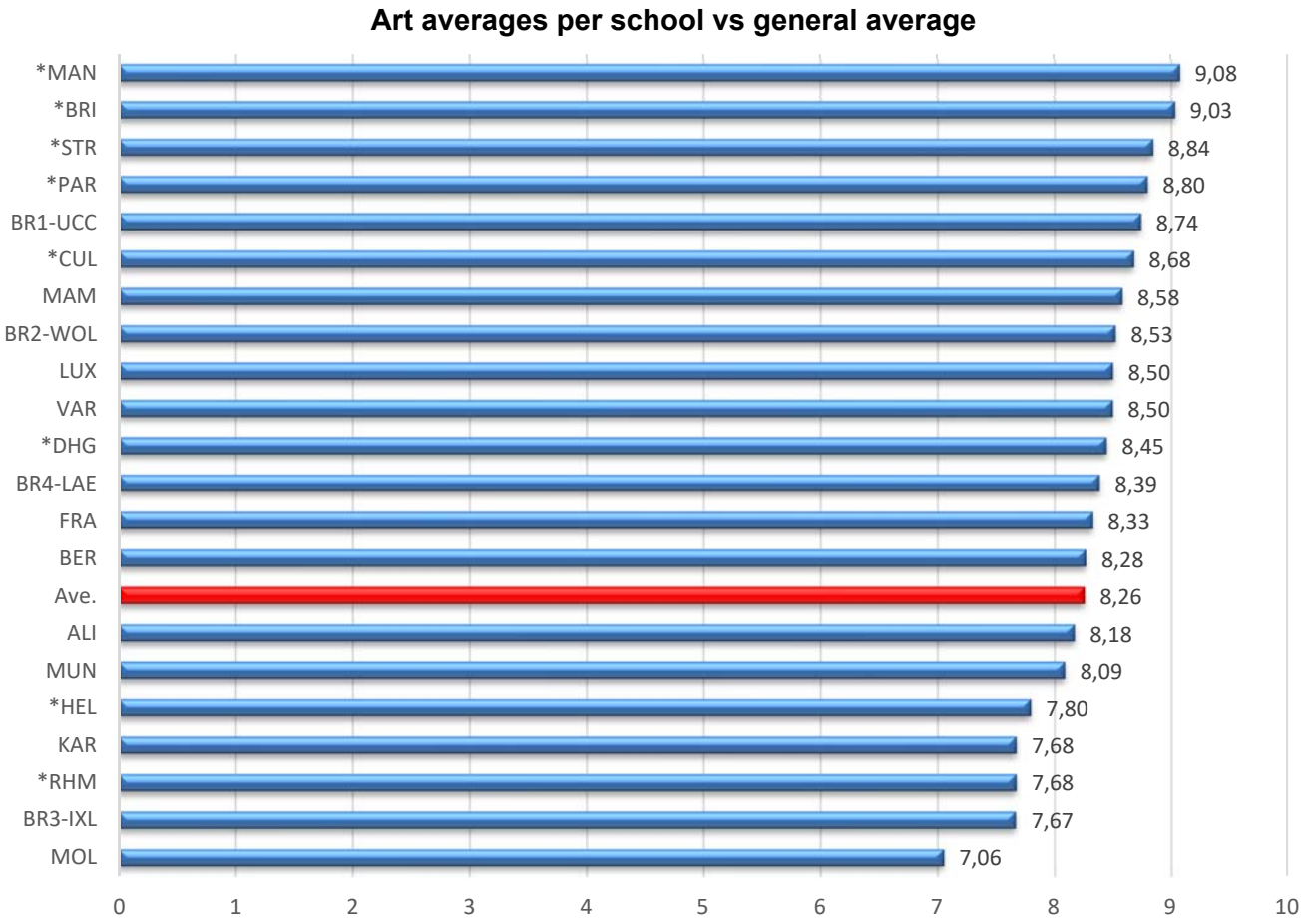
2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
201	219	215	195	217	175	214	249	282	291	328	303

The averages in these disciplines are in line with previous years. They tend to show that pupils choose the subjects out of passion, talent and competence, not just by mere curiosity or simple need to complete their schedule.

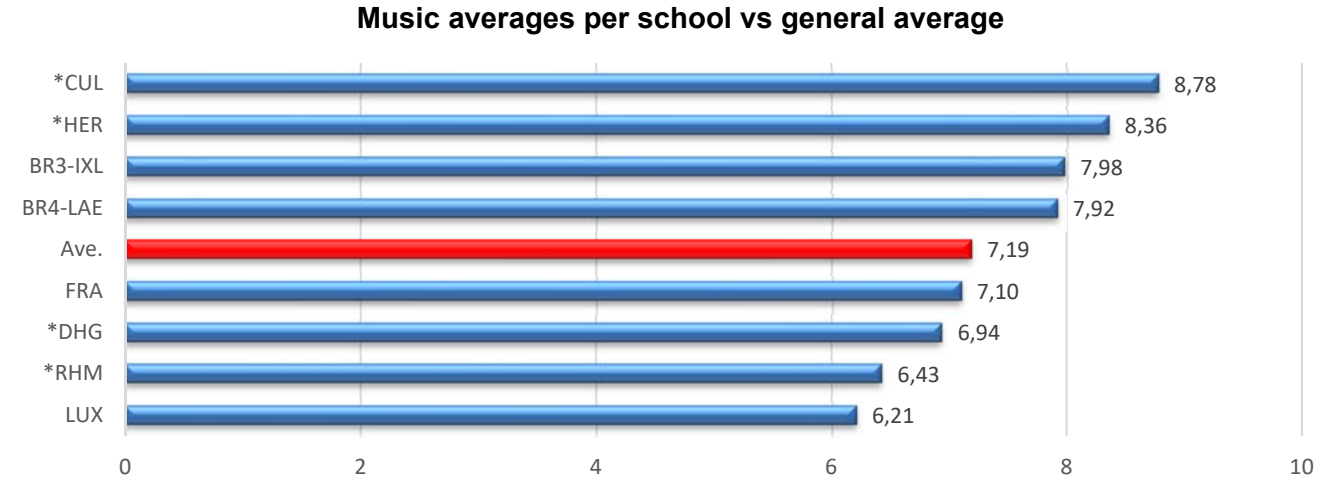


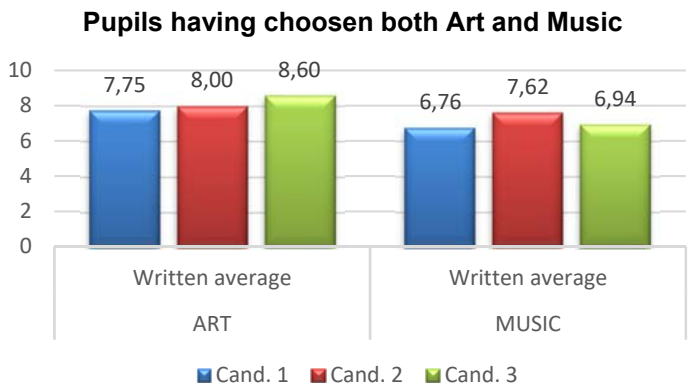


General average in Art at the 2021 European Baccalaureate, per school: 8.26.



General average in Music at the 2021 European Baccalaureate, per school: 7.19.



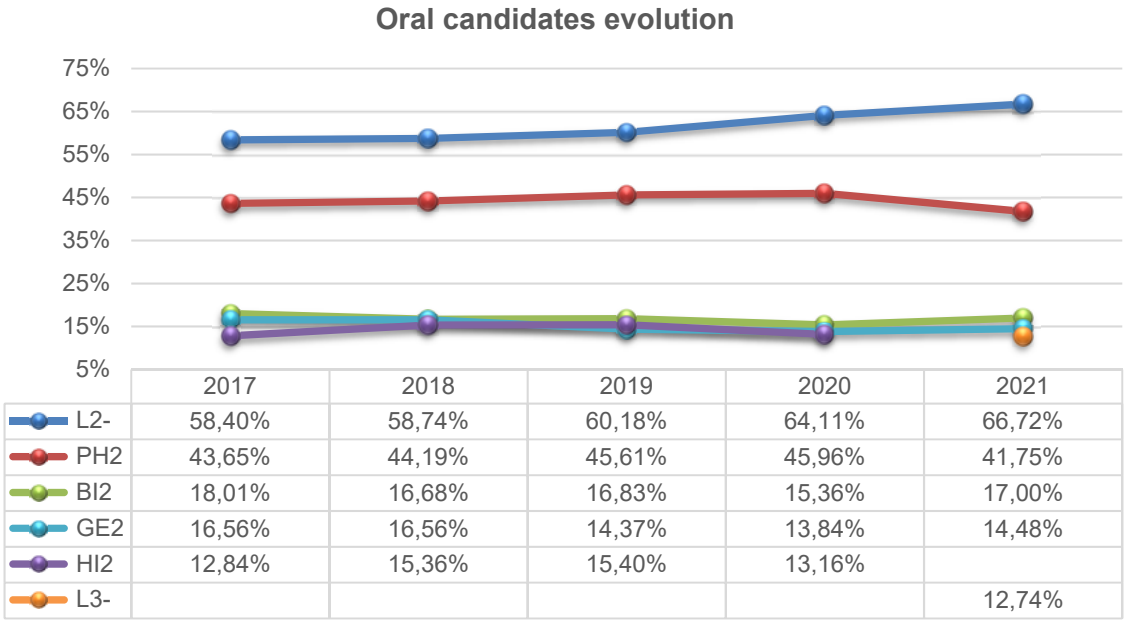


Three candidates took both Art and Music examination, from *RHM, *DHG and LUX.

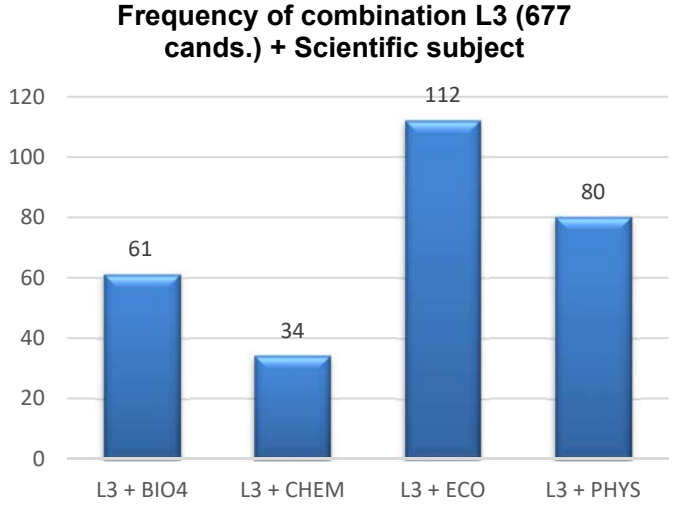
7.6.2. Most common chosen oral subjects

The five most widely chosen options for the oral examinations in 2021 were: Language II (EN 1102, FR 241, DE 198, ES 24, IT 11 and NL 6), Philosophy 2, Biology 2, Language III and Geography 2.

Options of oral examinations	Number of candidates BAC 2019	Percentage of candidates BAC 2019	Number of candidates BAC 2020	Percentage of candidates BAC 2020	Number of candidates BAC 2021	Percentage of candidates BAC 2021
LANGUAGE II	1309	60.18%	**1452**	**64.11**%	**1582**	**66.72%**
PHILOSOPHY 2	992	45.61%	**1041**	**45.96**%	**990**	**41.75%**
BIOLOGY 2	366	16.83%	**348**	**15.36**%	**403**	**17.00%**
HISTORY 2	335	15.40%	**298**	**13.16**%		
GEOGRAPHY 2	301	13.84%	**328**	**14.48**%	**300**	**12.65%**
LANGUAGE III					**302**	**12.74%**



7.6.3. Combination L3 - Sciences



677 candidates took a written examination in Language III. Out of these, 287 combined this examination with an examination in one scientific subject.

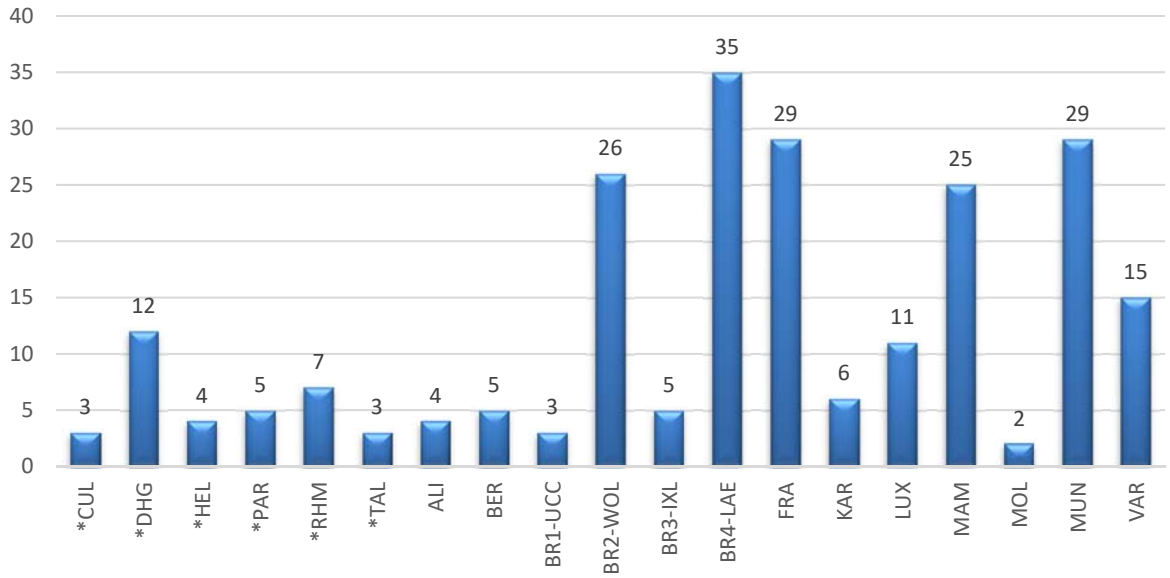
In this graph it can be seen a frequency of combination:

The graph shows that candidates with language orientation are also interested in mastering sciences in line with European key competences for lifelong learning.

7.7. Students Without A Language Section (SWALS)

This year, 229 Students Without A Language Section registered for the European Baccalaureate session.

Number of Students without a language section (SWALS: 229)

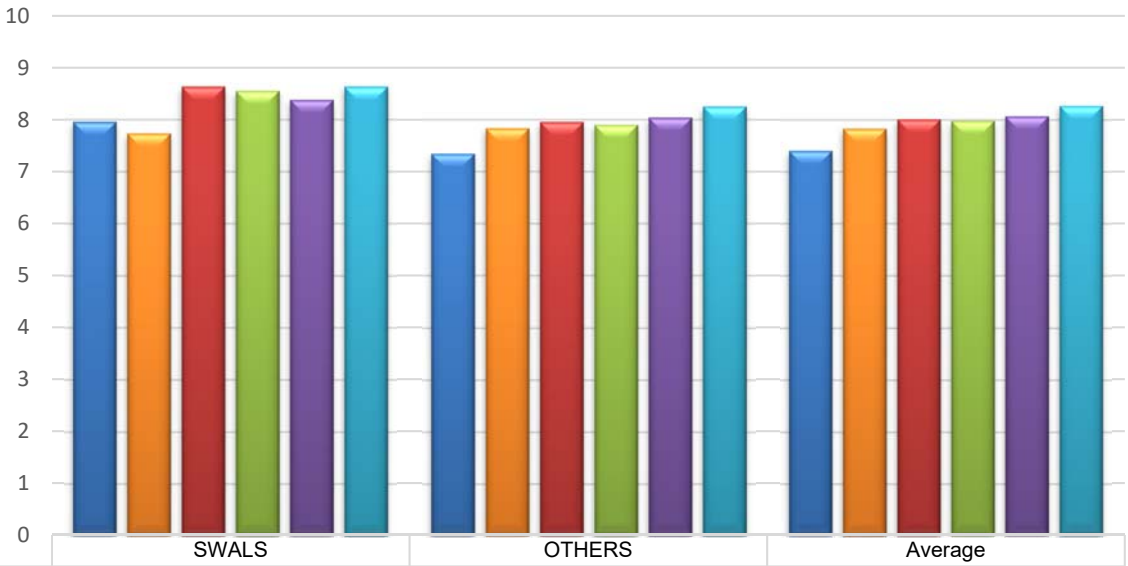


The average Final Mark achieved by SWALS candidates this year has been of 80.90.

None of the SWALS candidates failed.

In the following graph are shown their performance in L1-, L1A, L2-, L2A, L3- and L4-. It can be observed that their performance in L1-, L2-, L2A, L3- and L4- is higher than the average, and a little bit below the average in L1A.

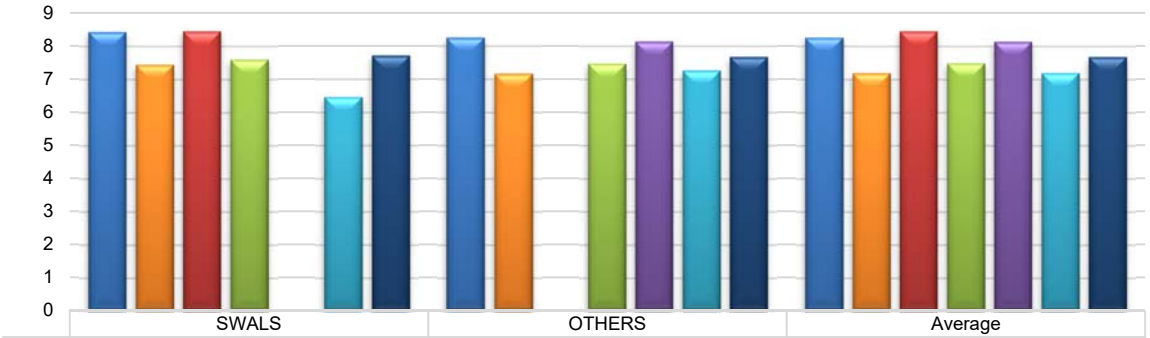
SWALS: Written marks in Languages



	SWALS	OTHERS	Average
L1- W	7,95	7,34	7,40
L1A W	7,73	7,83	7,82
L2- W	8,63	7,95	8,01
L2A W	8,55	7,89	7,98
L3- W	8,38	8,04	8,06
L4- W	8,63	8,25	8,27

Here are some results of the SWALS pupils in comparison with the other pupils and the general average. Results where SWALS averages are higher than NO SWALS, are highlighted.

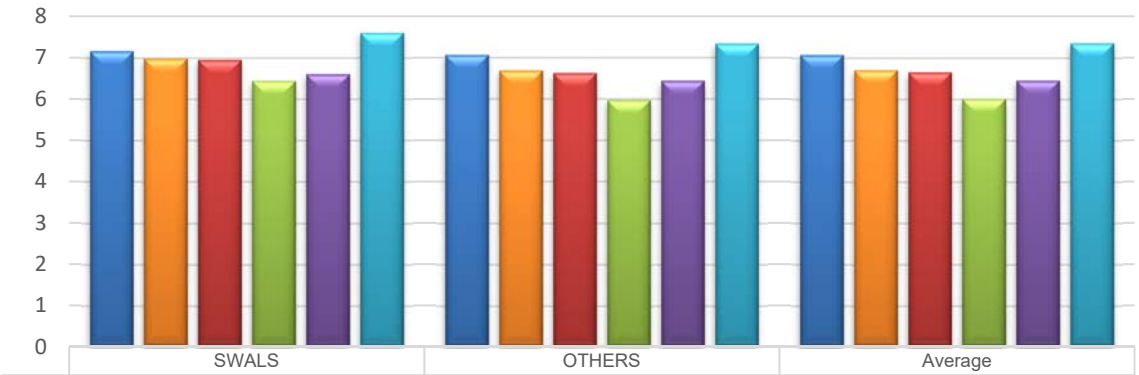
SWALS: Written marks of linguistic subjects



	SWALS	OTHERS	Average
AR4	8,43	8,25	8,26
GE4	7,44	7,16	7,18
GRE	8,45		8,45
HI4	7,59	7,47	7,48
LAT		8,13	8,13
MU4	6,46	7,26	7,19
PH4	7,71	7,67	7,67

	AR4	GE4	GRE	HI4	LAT	MU4	PH4
SWALS	8,43	7,44	8,45	7,59		6,46	7,71
NO SWALS	8,25	7,16		7,47	8,13	7,26	7,67
ALL	**8,26**	**7,18**	**8,45**	**7,48**	**8,13**	**7,19**	**7,67**

SWALS: Written marks of scientific subjects



	SWALS	OTHERS	Average
BI4	7,16	7,06	7,07
CHI	6,98	6,68	6,70
ECO	6,95	6,62	6,65
MA3	6,44	5,96	6,00
MA5	6,60	6,44	6,45
PHY	7,60	7,33	7,35

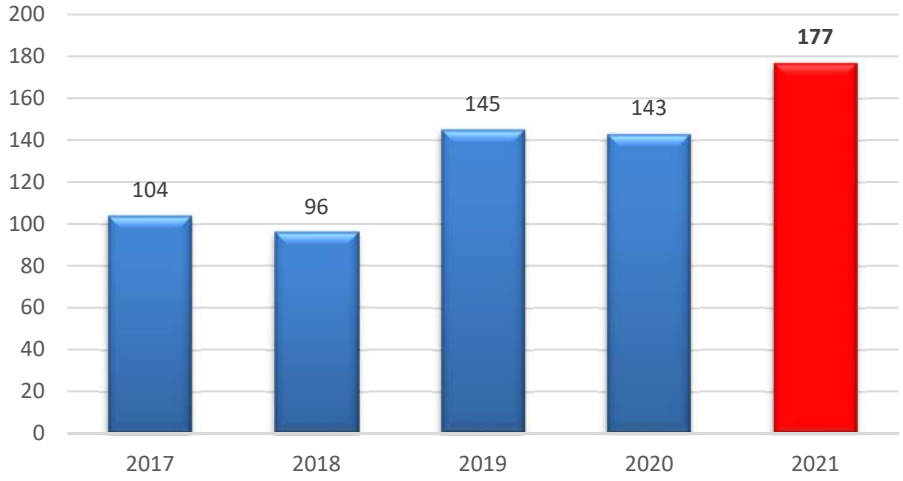
	BI4	CHI	ECO	MA3	MA5	PHY
SWALS	7,16	6,98	6,95	6,44	6,60	7,60
NO SWALS	7,06	6,68	6,62	5,96	6,44	7,33
ALL	**7,07**	**6,70**	**6,65**	**6,00**	**6,45**	**7,35**

7.8. Final Results for Pupils with Special Arrangements

7.8.1. Candidates

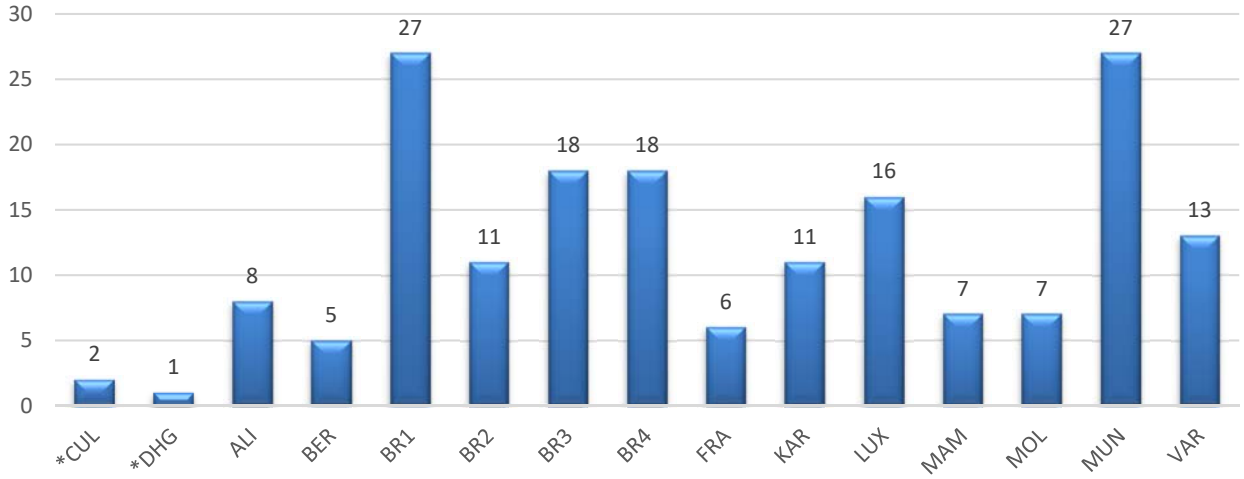
177 candidates were granted special measures to the written and/or oral examinations at the 2021 which substantially increases the previous figures.

Number of pupils with granted special arrangements



These measures mainly consisted in extra time, use of laptop (with or without spell checker), and use of calculator. Other more exceptional measures consisted in allowing a reader, a scribe, a separate room, having a break under surveillance, change of format of the examination subject paper, etc.

Number of pupils per school (177) with special arrangements



7.8.2. Success Rate

Success rate 2021

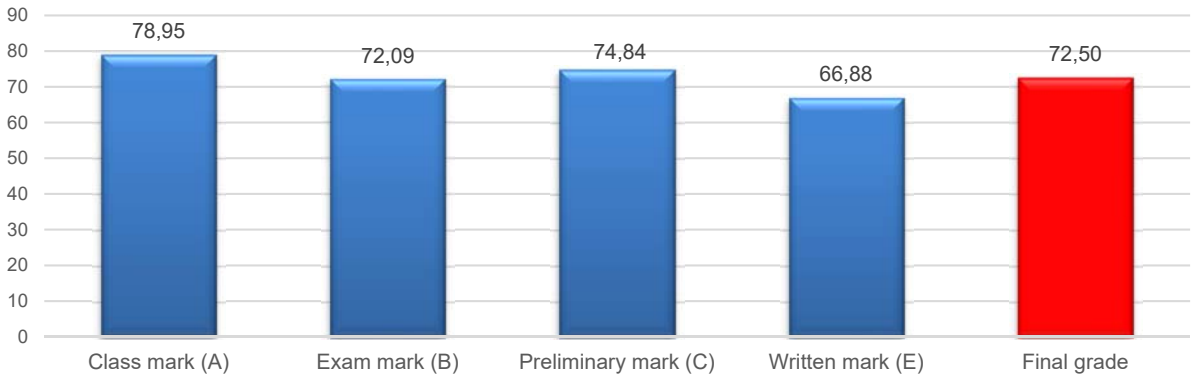
98,87% of the candidates with special arrangements (175) succeeded, all SWALS candidates included.

7.8.3. Choices of examinations

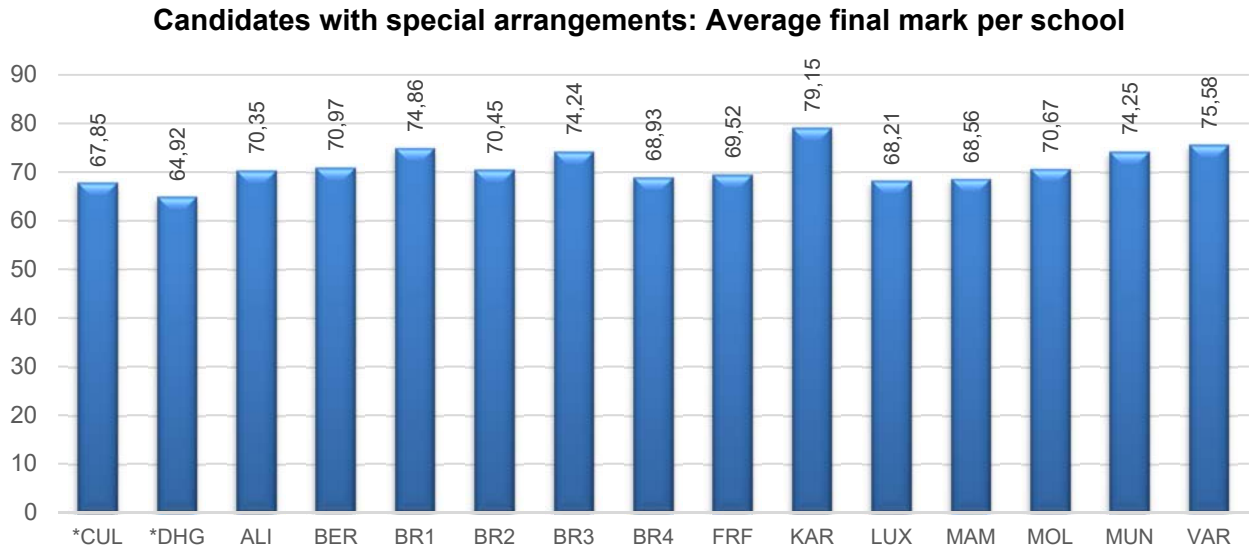
Subjects	Number of pupils who took the written exam	Average of Written examination marks (W)	Number of pupils who took the oral exam	Average of Oral marks (O)[8]
AR4	38	8,14		
BI2			43	8,00
BI4	37	5,86	10	7,89
CHI	31	5,75	2	6,90
ECO	31	6,27		
GE2			15	7,57
GE4	49	6,89	4	8,70
GRO				
HI2			26	7,83
HI4	29	6,83	6	7,40
L1-	169	6,71	169	7,45
L1A	8	6,91	8	7,64
L2-	170	7,33	119	8,13
L2A	7	7,26	7	7,82
L3-	56	7,61	20	8,18
L4-	27	7,30	4	8,56
LAT	1	7,35		
MA3	123	5,51		
MA5	54	5,71		
MAA			7	7,75
MU4	1	2,03		
ONL				
PH2			74	7,69
PH4	23	7,35	11	8,43
PHY	33	6,66	6	7,23
Total / average SEN	177 candidates for 885 exams + 2 additional exams	6,68	177 candidates for 531 exams	7,78
Total / average ALL	2370 candidates for 11850 written exams + 21 additional exams	7,28	2370 candidates for 7110 oral exams	8,32

7.8.4. Overall final mark

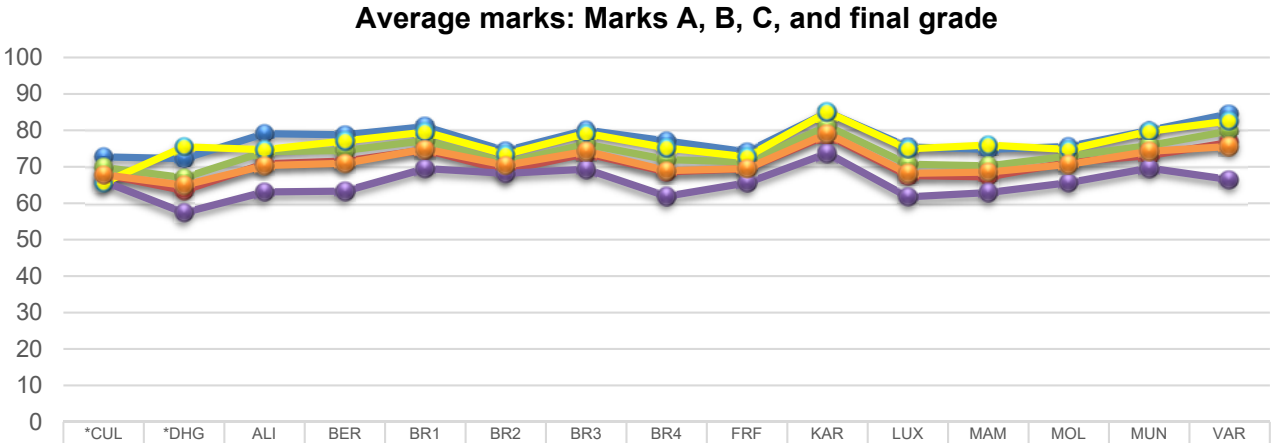
Candidates with special arrangements: General averages



[8] For the EB 2021 session, due to the COVID-19 and the cancellation of the oral examinations, the final oral mark corresponds to the replication of the A mark of the subject.



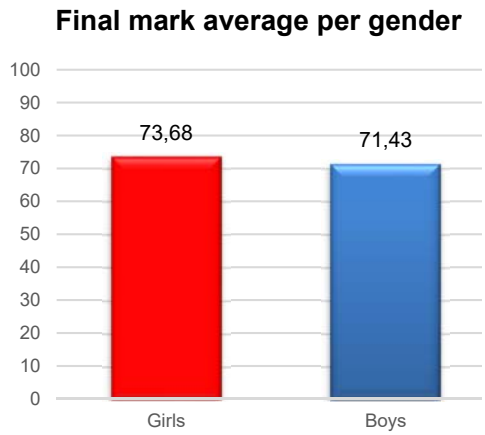
7.8.5. Distribution of marks

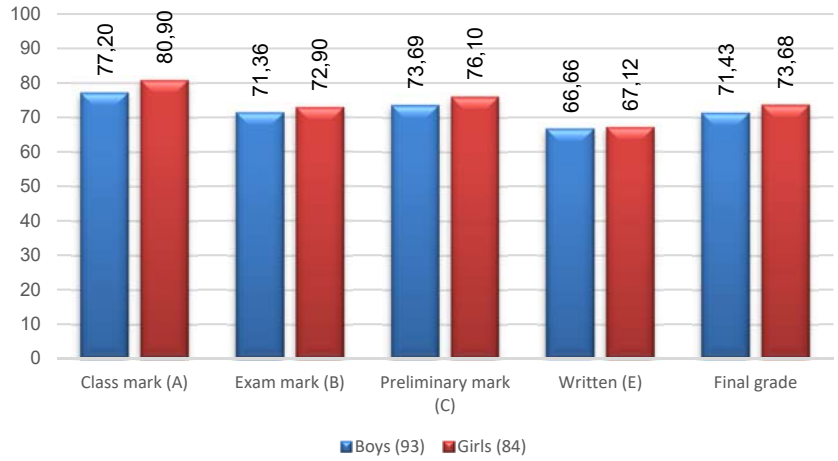


	*CUL	*DHG	ALI	BER	BR1	BR2	BR3	BR4	FRF	KAR	LUX	MAM	MOL	MUN	VAR
Class mark (A)	72,70	72,23	79,08	78,79	81,03	74,40	80,04	77,06	74,06	84,93	75,46	74,78	75,57	79,96	84,55
Exam mark (B)	67,88	63,50	70,82	71,57	74,63	68,98	73,63	68,57	69,49	78,69	67,57	67,22	71,24	73,07	76,67
Preliminary (C)	69,80	67,00	74,11	74,48	77,19	71,15	76,20	71,97	71,32	81,17	70,72	70,27	72,96	75,83	79,82
Written mark (E)	66,00	57,40	63,10	63,32	69,52	68,18	69,32	61,89	65,58	73,73	61,76	62,94	65,63	69,65	66,50
Oral mark (O)	65,60	75,50	74,69	77,12	79,53	73,41	79,19	75,19	72,70	85,02	74,91	75,97	74,76	79,74	82,61
Final grade	67,85	64,92	70,35	70,97	74,86	70,45	74,24	68,93	69,52	79,15	68,21	68,56	70,67	74,25	75,58

7.8.6. Results per gender and averages

Out of the 177 candidates with special arrangements, 93 were boys and 84 were girls. Two candidates failed.





8. Results about the Sciences: Biology, Chemistry, Economic Sciences, Mathematics, and Physics

8.1. Final Marks for Science Classes

(Final Mark per subject: 0.50 C + 0.35 W + 0.15 O[9])

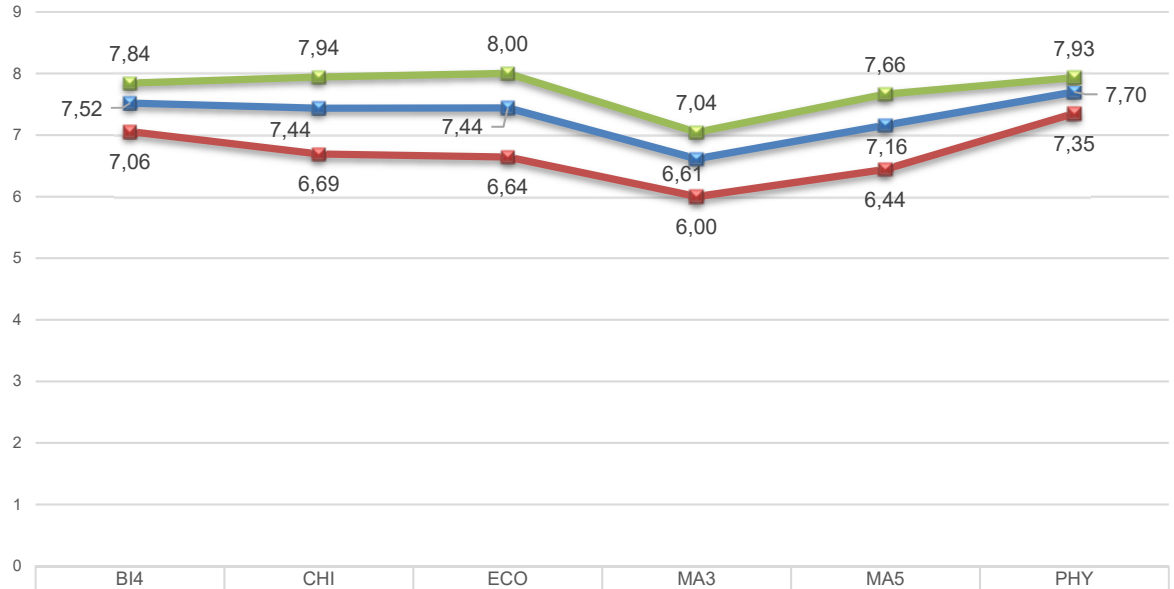
The evolution of the average Final Mark (Marks C + W + O) for the science classes shows substantial stability over the years.

Final mark average for science classes								
	BI2	**BI4**	**CHI**	**ECO**	**MA3**	**MA5**	**MAA**	**PHY**
2013	7.58	7.52	7.37		6.70	7.13	8.26	7.25
2014	7.57	7.59	7.41	7.43	6.68	7.32	8.34	7.53
2015	7.62	7.46	7.57		6.89	7.46	8.28	7.42
2016	7.59	7.47	7.50	7.56	6.93	7.26	8.31	7.48
2017	7.81	7.60	7.65	7.65	6.71	7.51	8.32	7.74
2018	7.68	7.52	7.70	7.72	6.71	7.20	8.37	7.93
2019	7.70	7.68	7.78	7.66	6.97	7.38	8.42	7.87
2020	7.84	7.99	7.94	8.18	7.27	7.93	8.38	8.13
2021	7.91	7.60	7.50	7.44	6.61	7.16	8.33	7.70

8.2. Comparison of Final Marks / Written Marks of Scientific Courses

The graphs below show that the results in the Biology, Chemistry, Economics, Maths 3P, Maths 5P and Physics final marks do not differ much from the final written EB mark with variations between 0.35 and 0.80 points. However, the number of failures in these subjects is still considerable.

Comparison of Final / Written and Preliminary Marks of Scientific subjects

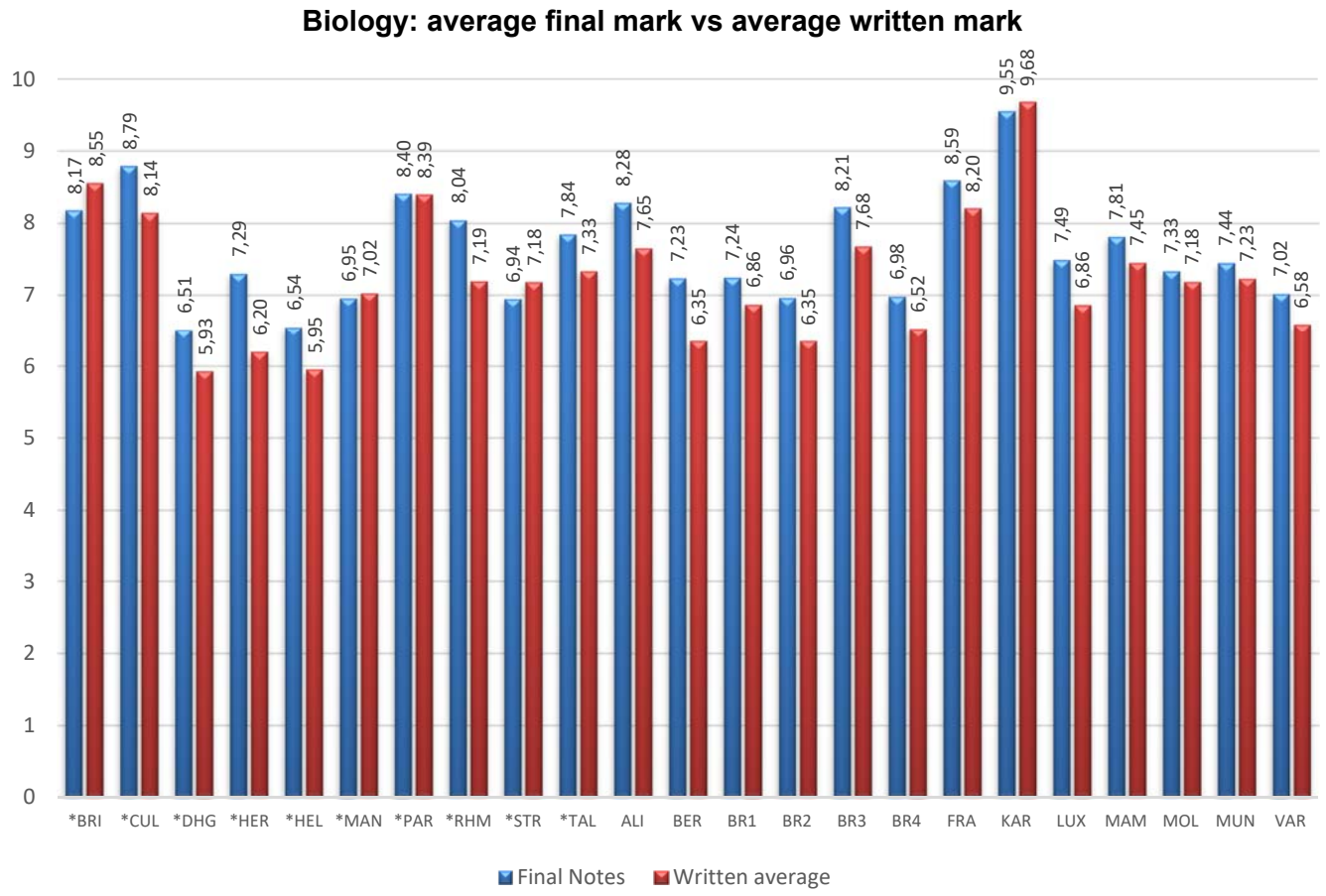


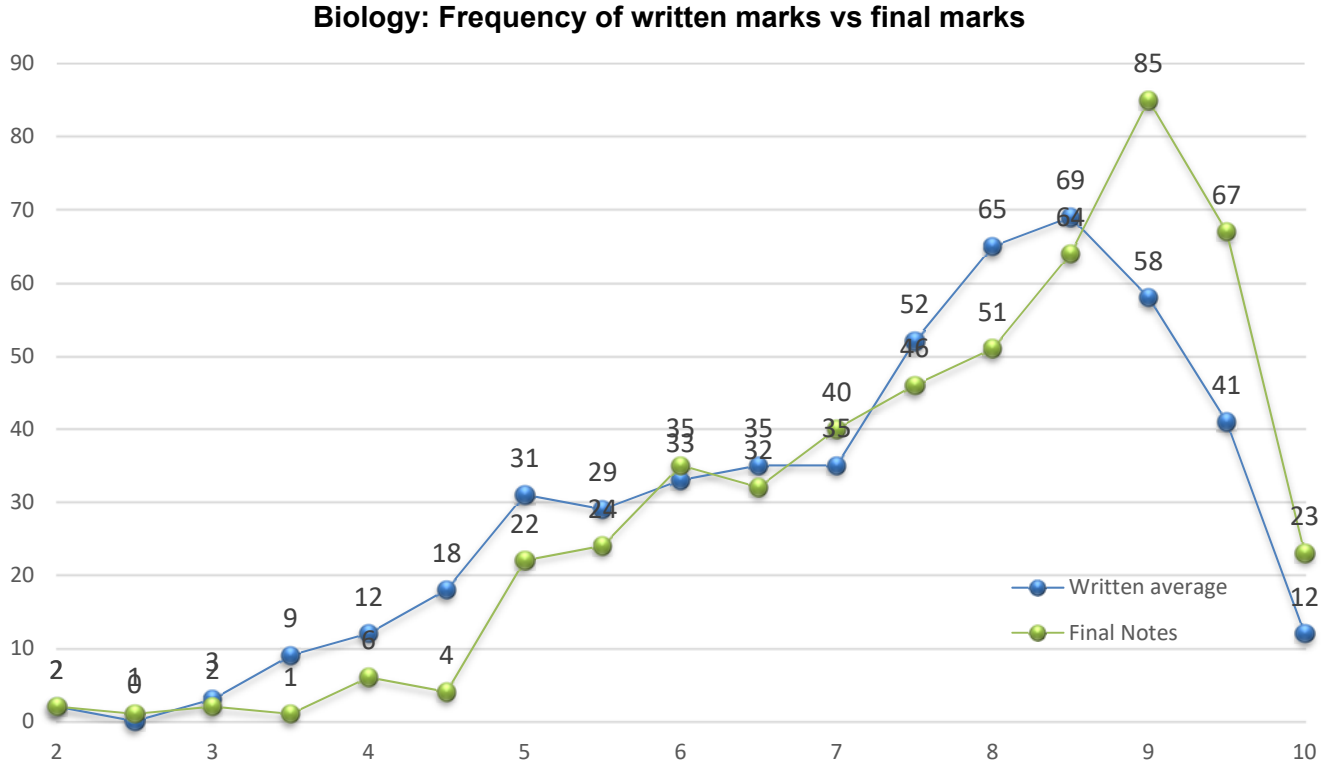
	BI4	CHI	ECO	MA3	MA5	PHY
Final mark	7,52	7,44	7,44	6,61	7,16	7,70
Written mark	7,06	6,69	6,64	6,00	6,44	7,35
Preliminary mark	7,84	7,94	8,00	7,04	7,66	7,93

[9] For the EB 2021 session, due to the COVID-19 and the cancellation of the oral examinations, the final oral mark corresponds to the replication of the A mark of the subject.

8.2.1. Biology Final Mark (general average. 7.52)

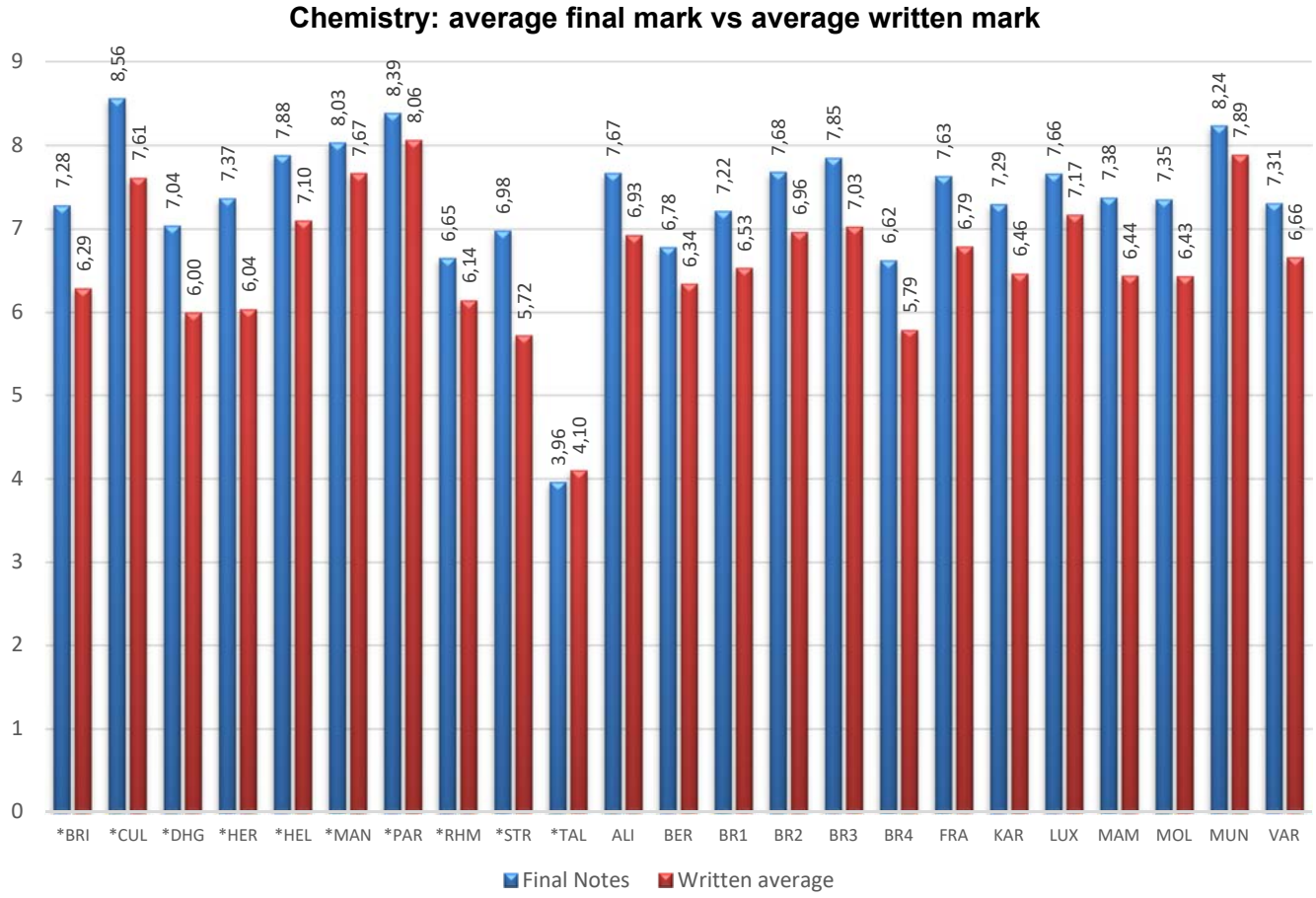
Detailed results, per school:

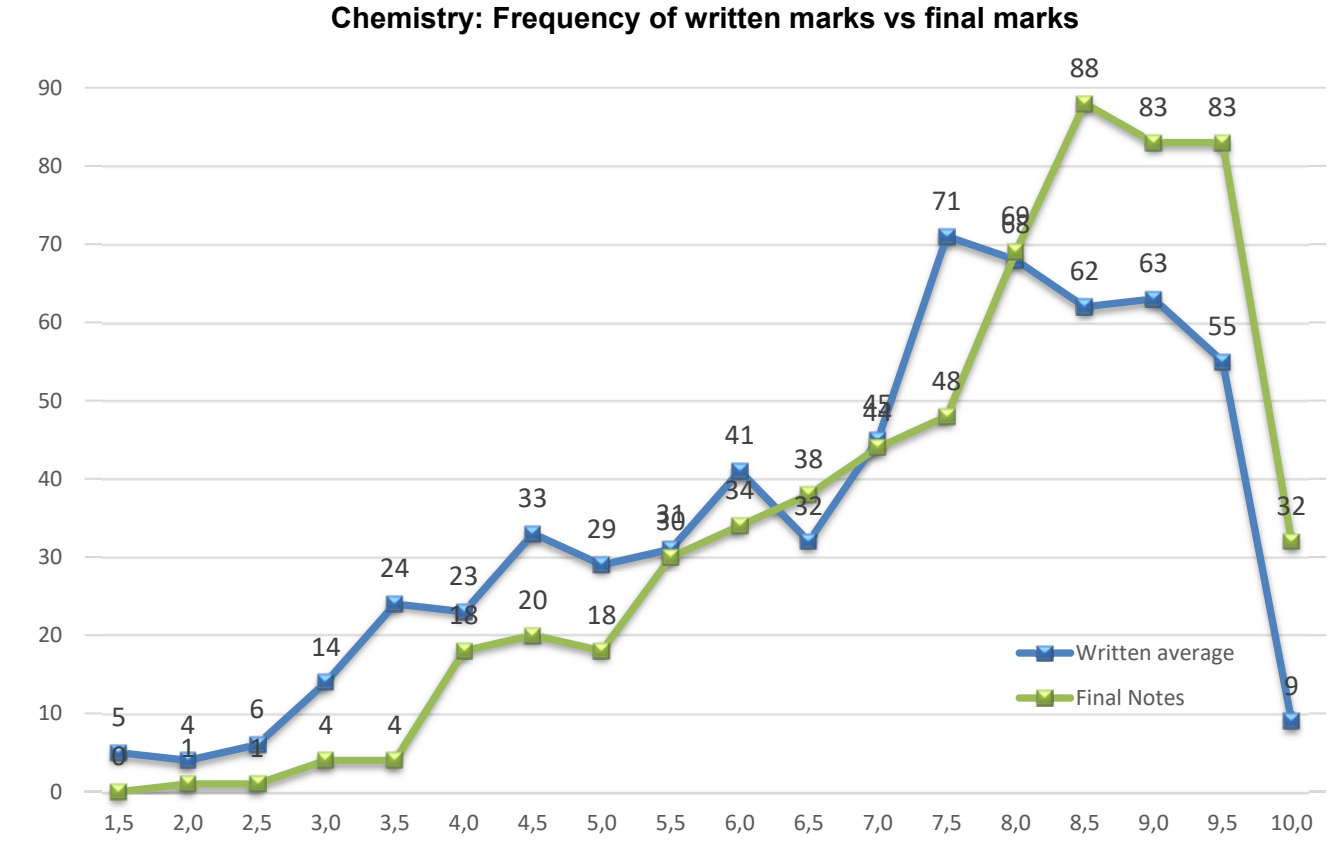




8.2.2. Chemistry Final Mark (general average. 7.44)

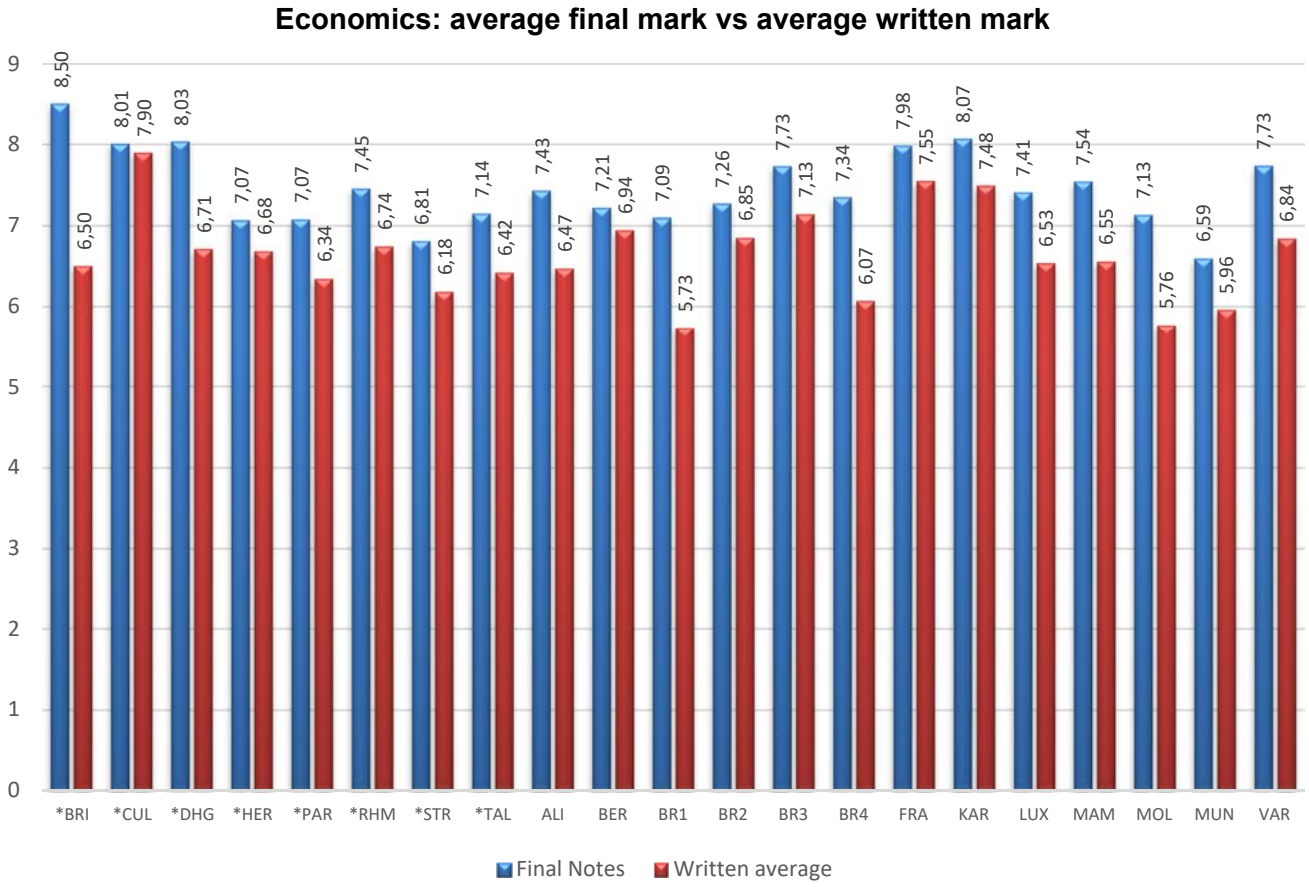
Detailed results, per school:

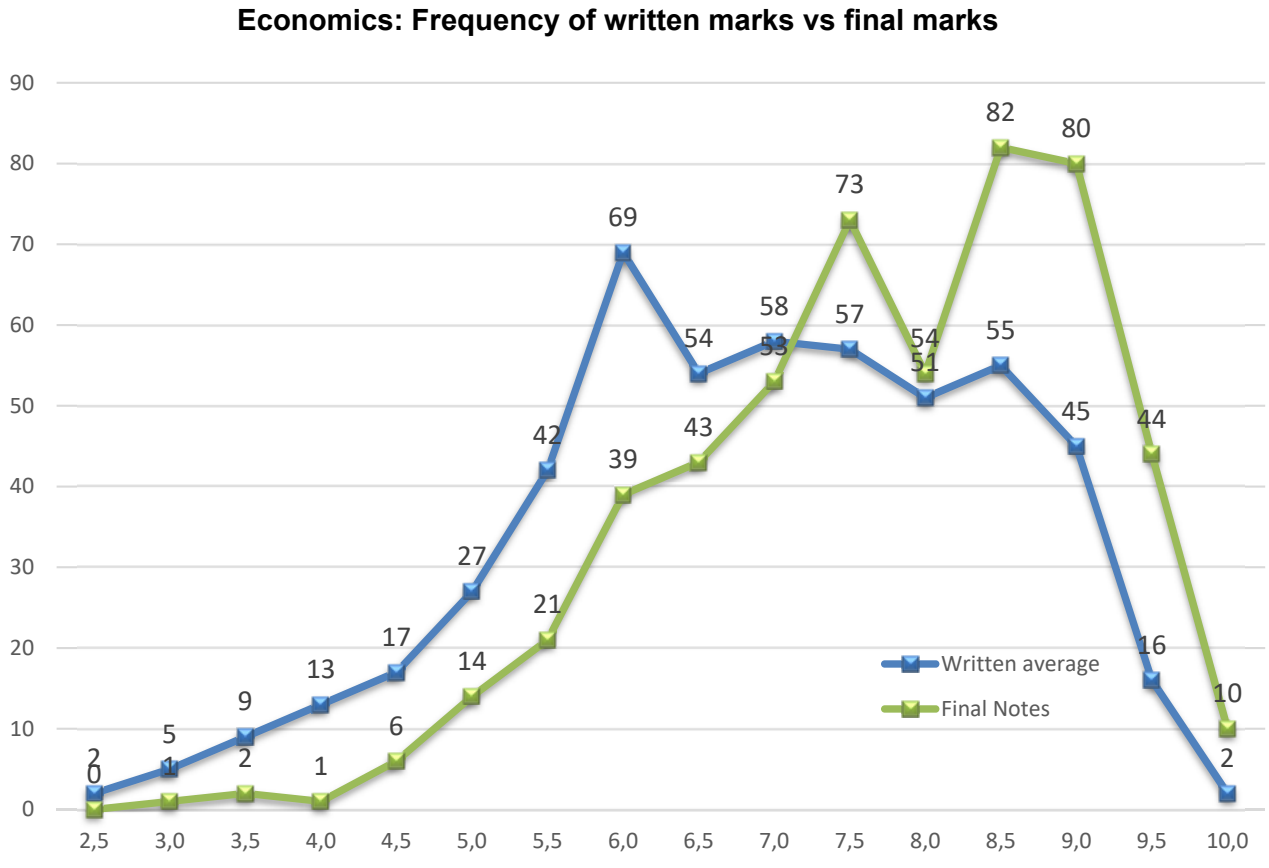




8.2.3. Economics Final Mark (general average 7.44)

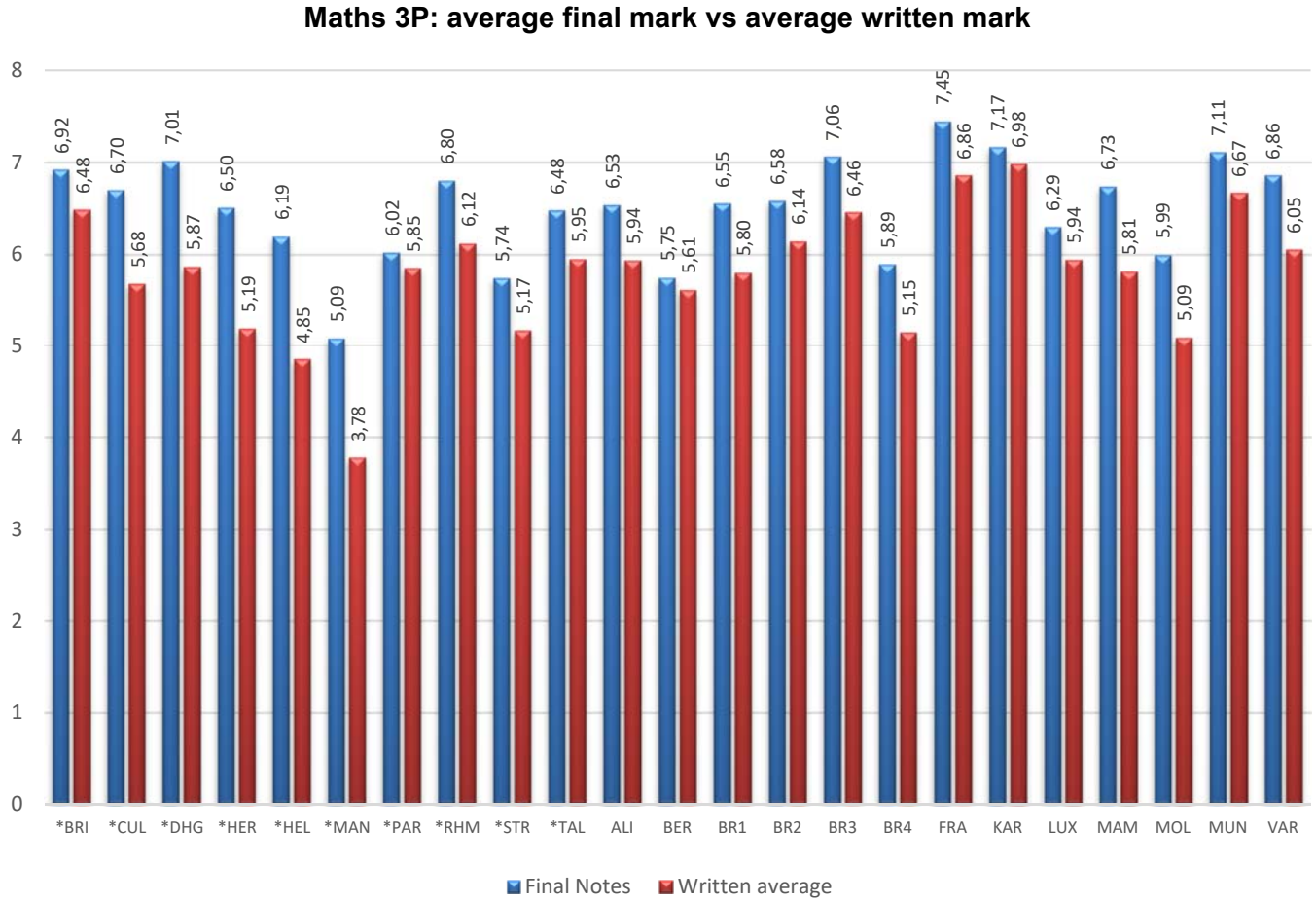
Detailed results, per school:

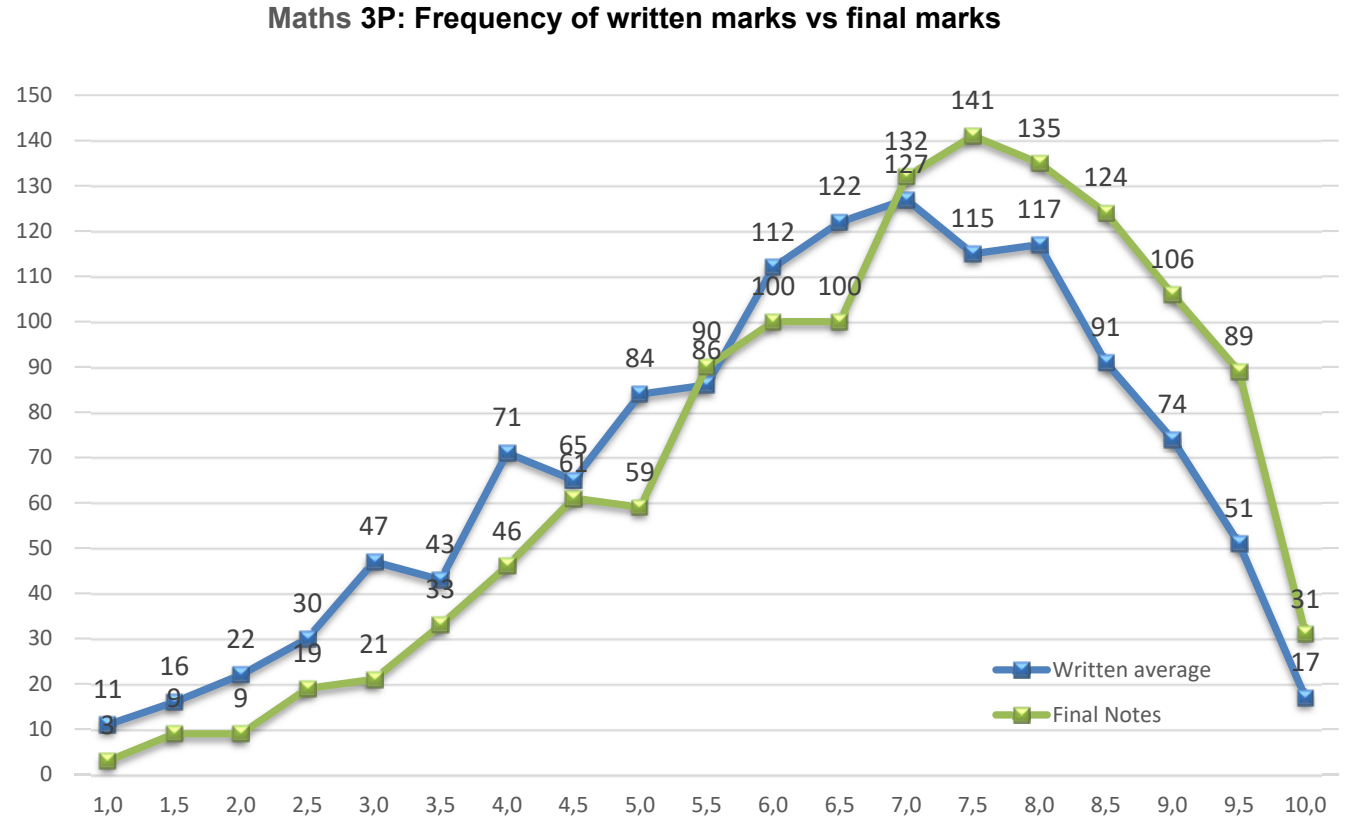




8.2.4. Maths 3P Final Mark (general average. 6.61)

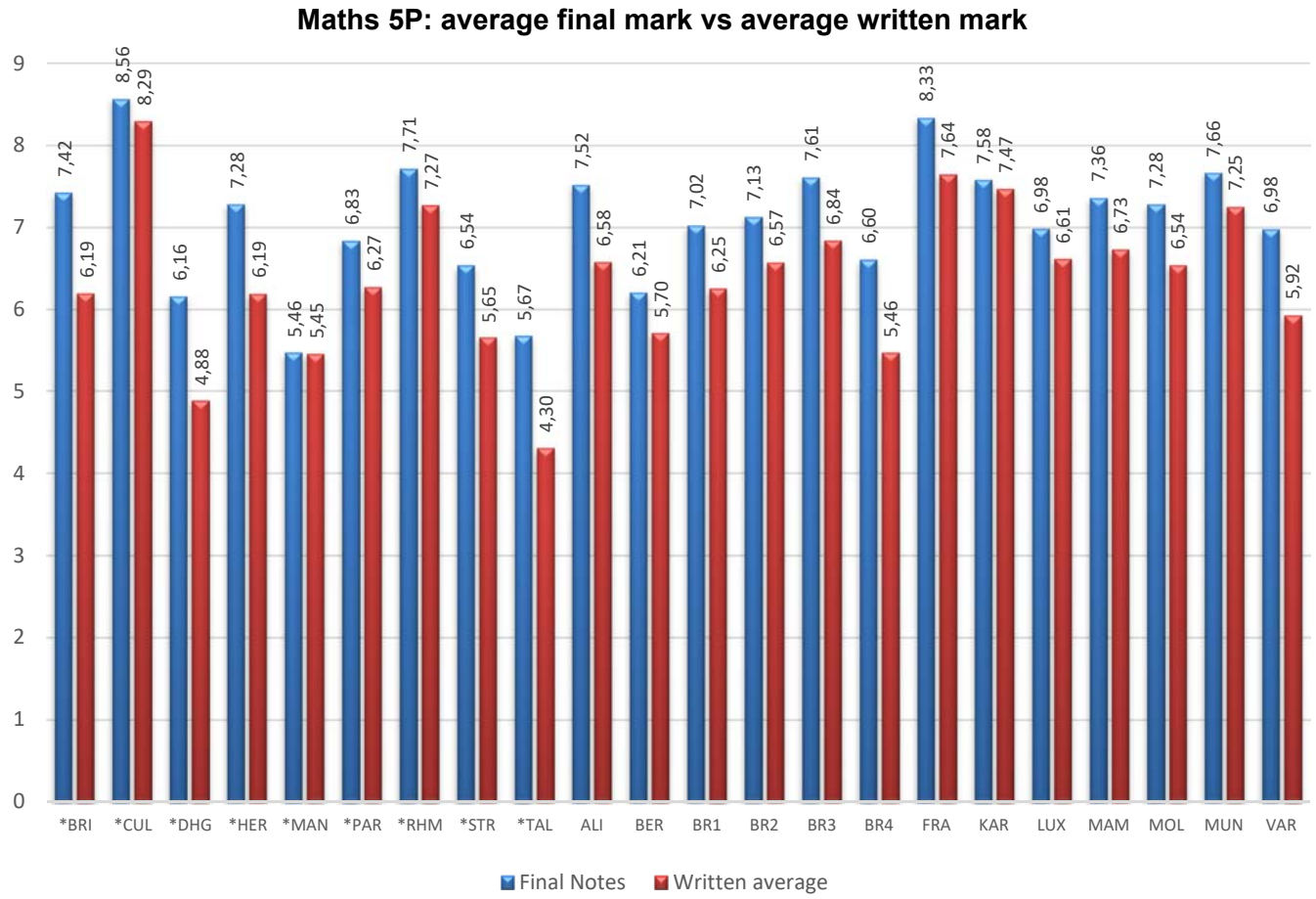
Detailed results, per school:

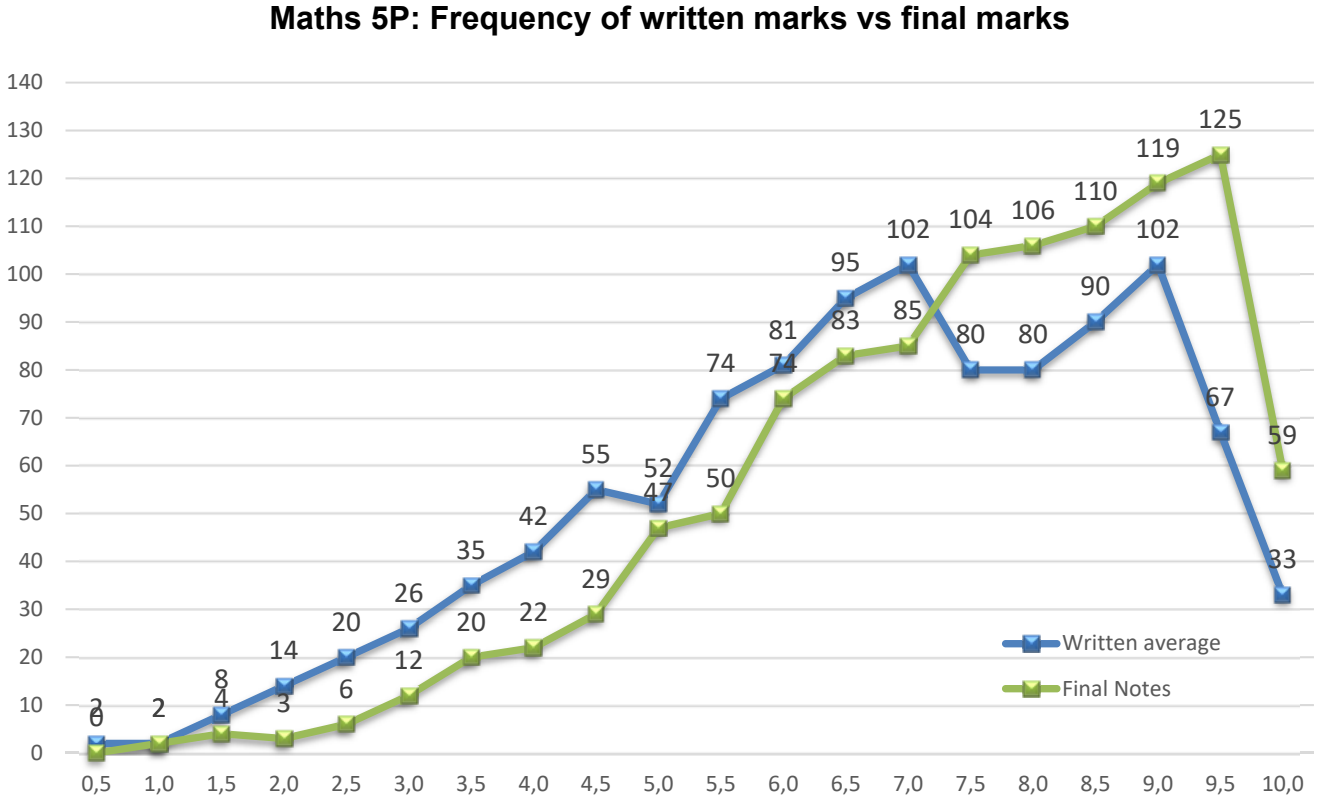




8.2.5. Maths 5P Final Mark (general average. 7.16)

Detailed results, per school:

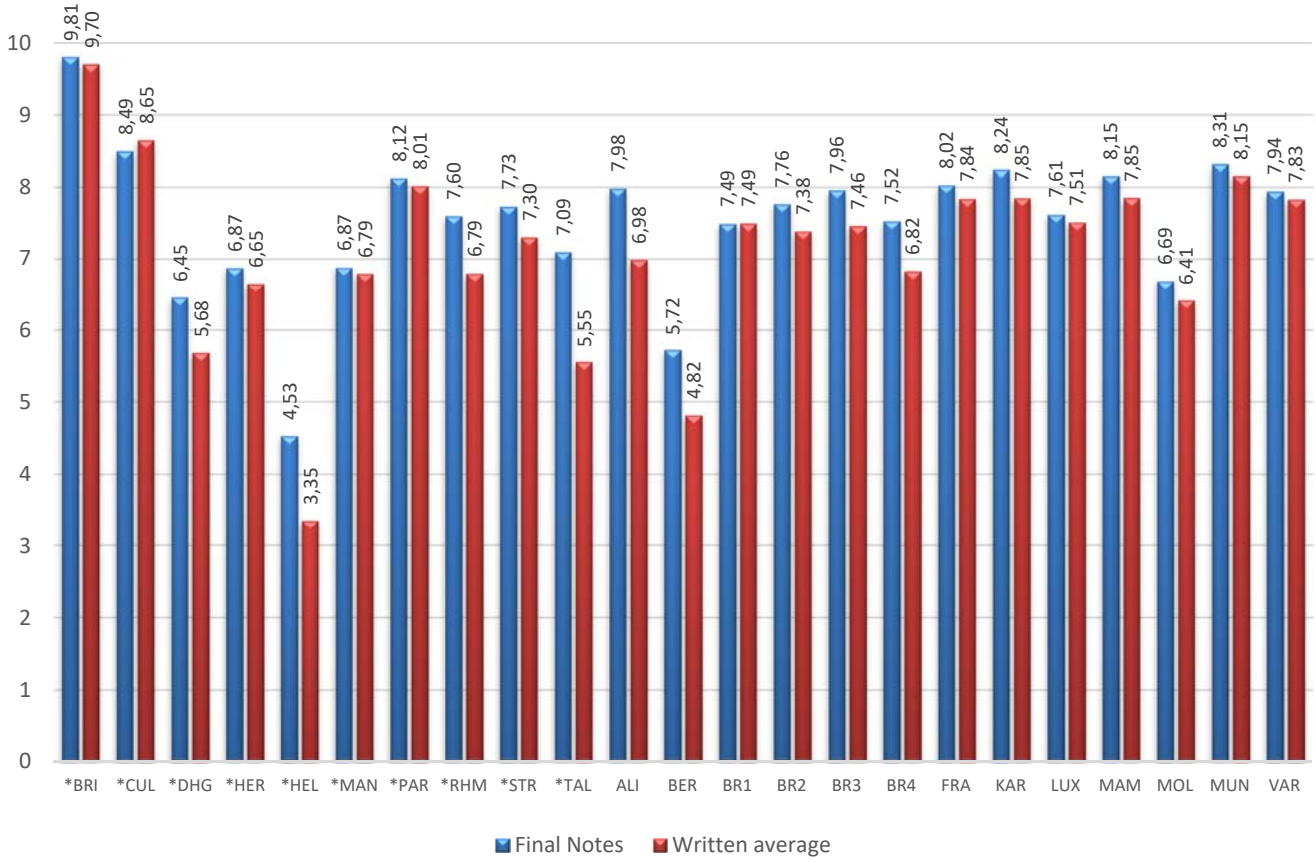




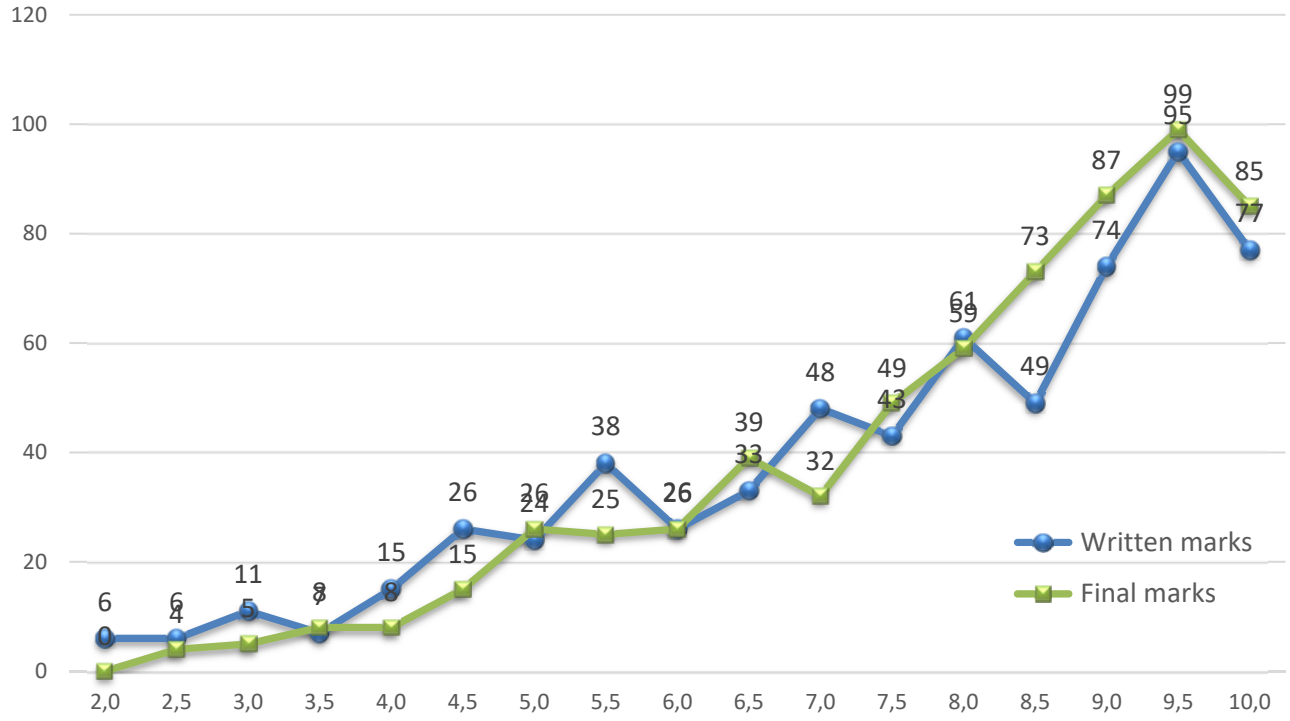
8.2.6. Physics Final Mark (general average. 7.70)

Detailed results, per school:

Physics: average final mark vs average written mark



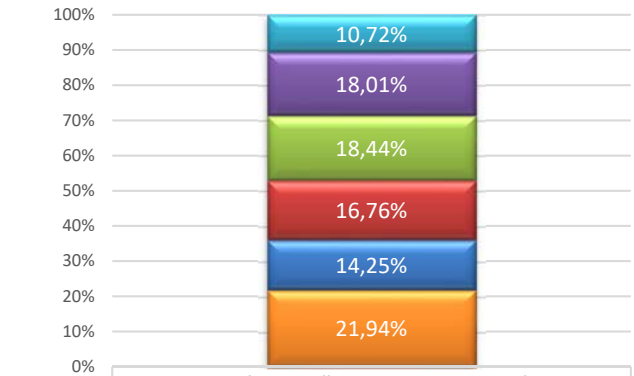
Physics: Frequency of written marks vs final marks



8.3. European Baccalaureate Sciences Written Examination Marks Results

The distribution graph below indicates that for all sciences subject examinations considered, the 21.94% of the scripts did not obtain the pass mark.

Distribution of all 2021 sciences written marks



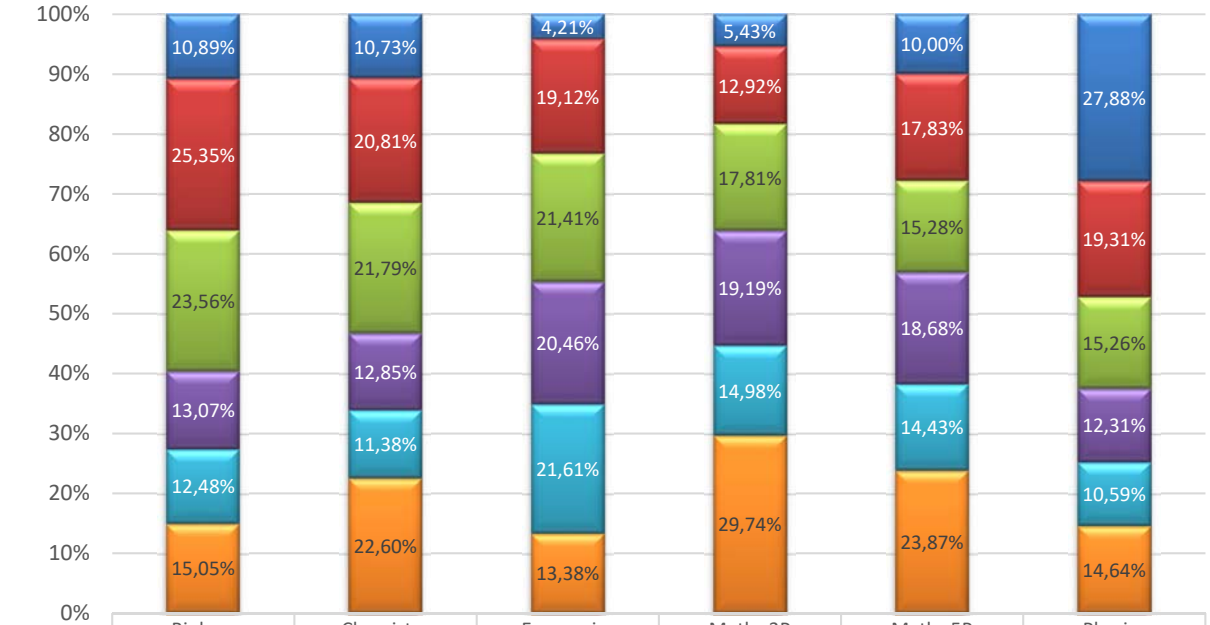
	Distribution All Sciences Written Marks
90-100	10,72%
80-89,99	18,01%
70-79,99	18,44%
60-69,99	16,76%
50-59,99	14,25%
0-49,99	21,94%

The next distribution table per subject reflects the detail among the sciences subject distribution of written examination marks.

MA3 is the subject with the highest failure rate with a percentage of 29.74% of pupils not reaching the pass mark of 5.

Whereas Physics has the highest success rate with a percentage of 27.88%, of pupils reaching a final written examination mark between 9 and 10.

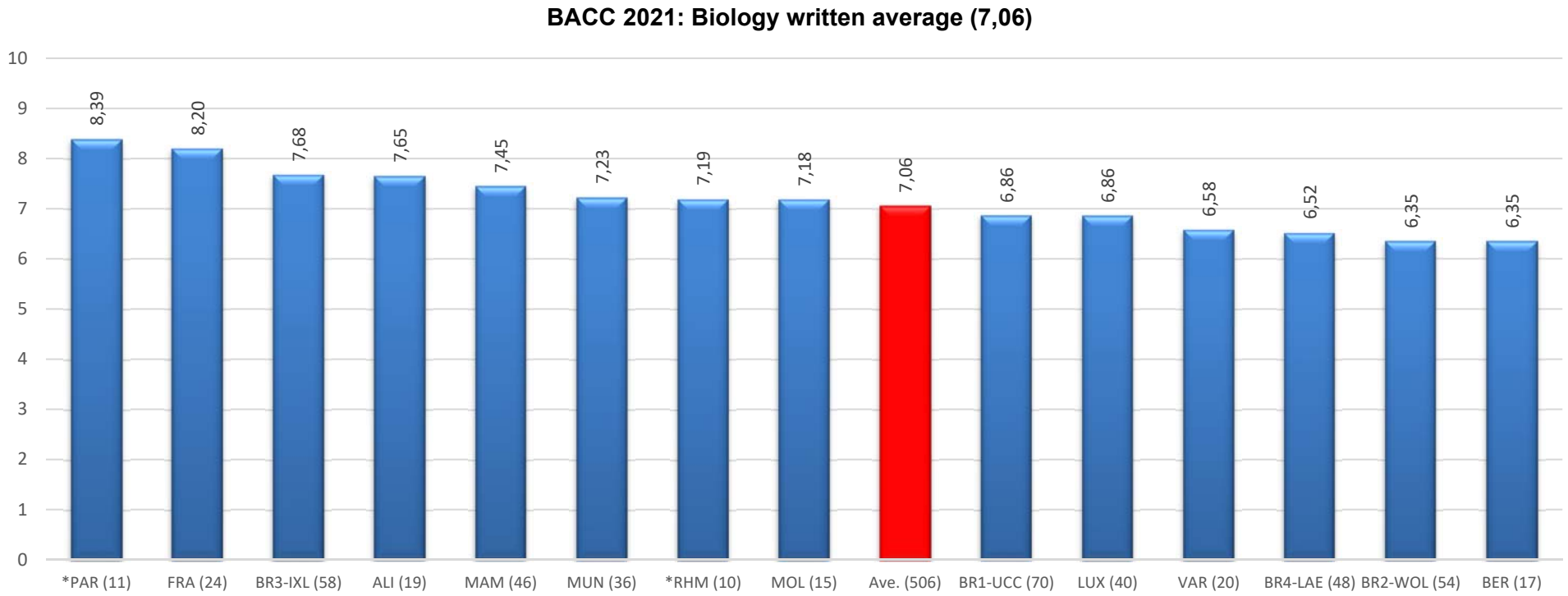
Distribution of the written marks 2021
Biology - Chemistry - Economics - MA3 - MA5 - Physics



	Biology	Chemistry	Economics	Maths 3P	Maths 5P	Physics
90-100	10,89%	10,73%	4,21%	5,43%	10,00%	27,88%
80-89,99	25,35%	20,81%	19,12%	12,92%	17,83%	19,31%
70-79,99	23,56%	21,79%	21,41%	17,81%	15,28%	15,26%
60-69,99	13,07%	12,85%	20,46%	19,19%	18,68%	12,31%
50-59,99	12,48%	11,38%	21,61%	14,98%	14,43%	10,59%
0-49,99	15,05%	22,60%	13,38%	29,74%	23,87%	14,64%

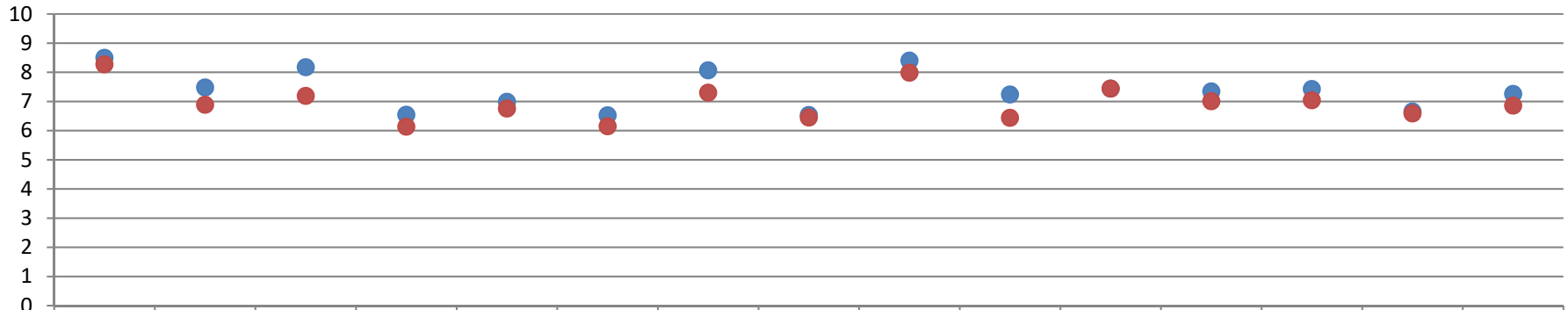
8.3.1. Biology (Success rate: 85.18%) [10]

School year	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	ALI	BER	BR 1	BR 2	BR 3	BR 4	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2016/2017	3,40	6,66		6,94	5,63	5,74	6,98	5,79	5,33		6,30	6,73	7,20	7,17	6,94	6,51	7,73	6,87	7,65	6,59	7,46	6,98	7,35	**6,92**
2017/2018	5,54	6,12		5,19	6,34	8,37	7,97	5,64	6,23		7,41	6,31	7,75	6,64	6,69	6,66	7,76	7,52	6,45	6,33	6,59	6,22	7,49	6,76
2018/2019	5,98	7,33	6,48	6,75	3,09	6,93	7,68	7,62	6,87		7,28	6,91	7,39	6,43	6,95	6,75	7,99	6,82	6,93	6,74	7,16	7,17	7,17	6,97
2019/2020	7,65	7,65	7,92	8,27		7,52	7,64	7,97	6,40	7,17	9,08	8,34	8,16	7,65	7,86	7,78	8,40	8,25	7,74	8,53	7,71	7,92	8,17	8,00
2020/2021	**8,55**	**8,14**	**5,93**	**6,20**	**5,95**	**7,02**	**8,39**	**7,19**	**7,18**	**7,33**	**7,65**	**6,35**	**6,86**	**6,35**	**7,68**	**6,52**	**8,20**	**9,68**	**6,86**	**7,45**	**7,18**	**7,23**	**6,58**	**7,06**



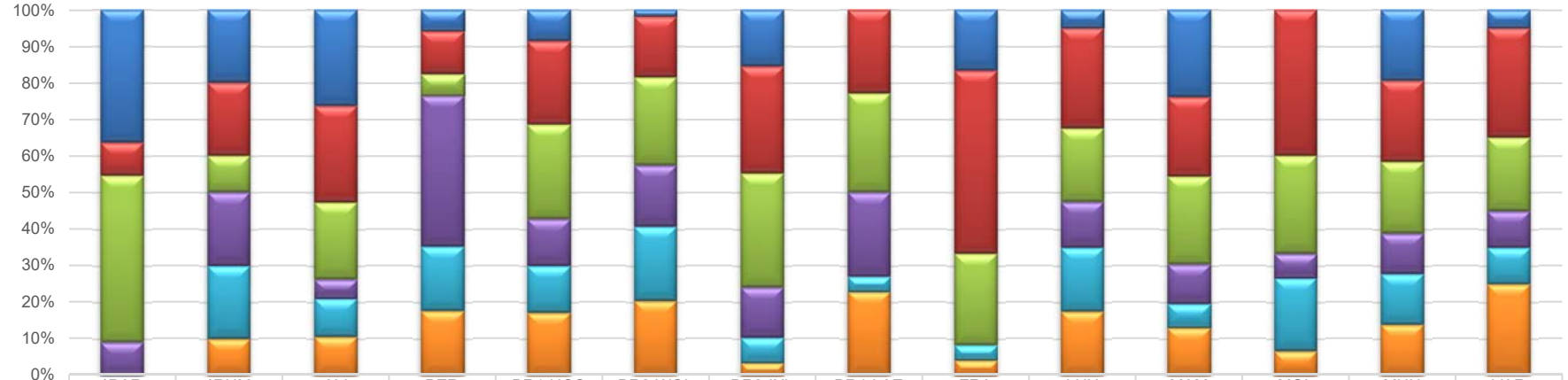
[10] Schools with less than 10 candidates will not be taken into consideration because they are not statistically relevants.

Biology: comparison W1 vs W2



	*PAR (11)	*RHM (10)	ALI (19)	BER (17)	BR1-UCC (70)	BR2-WOL (54)	BR3-IXL (58)	BR4-LAE (48)	FRA (24)	LUX (40)	MAM (46)	MOL (15)	MUN (36)	VAR (20)	Ave. (506)
WR 1	8,50	7,49	8,18	6,55	6,99	6,53	8,07	6,54	8,41	7,24	7,44	7,35	7,43	6,66	7,26
WR 2	8,27	6,89	7,19	6,14	6,76	6,15	7,31	6,45	7,99	6,44	7,45	7,01	7,04	6,59	6,86

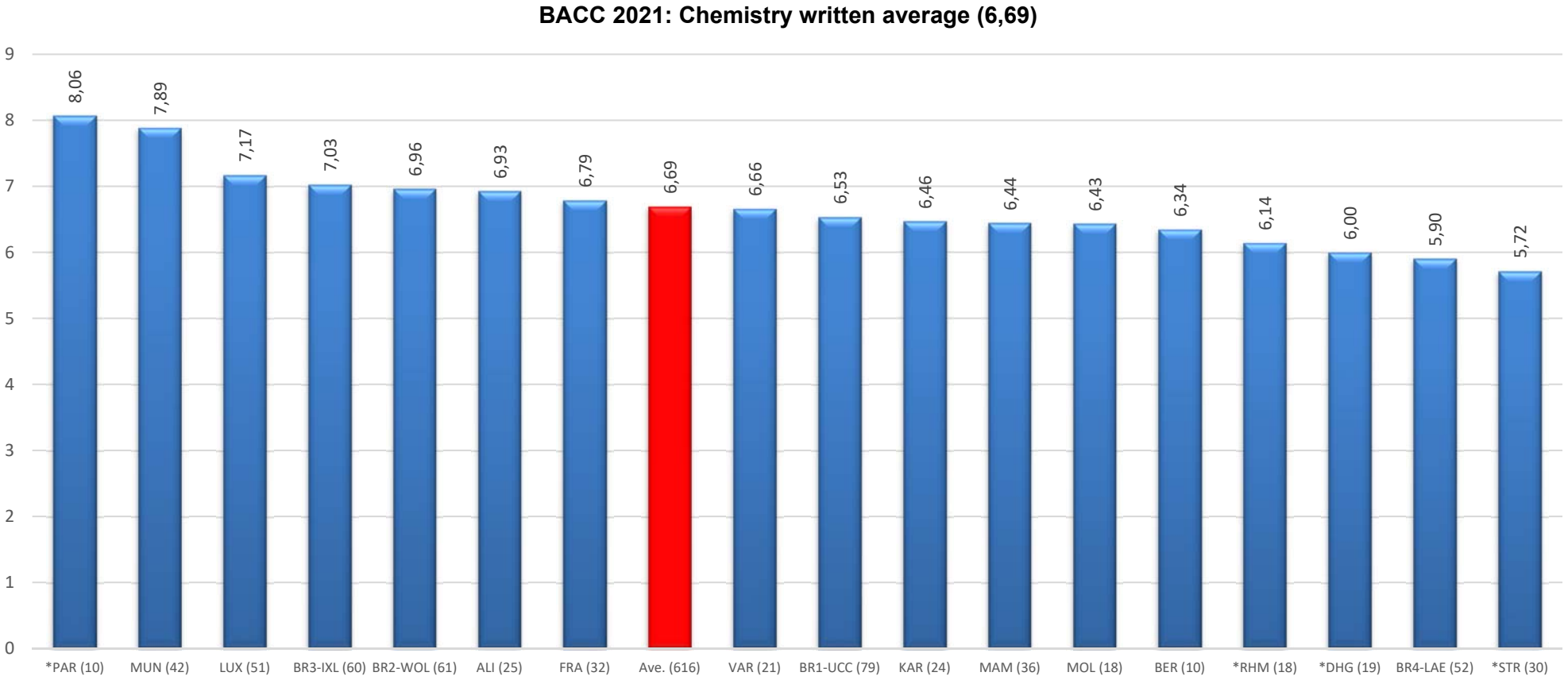
Biology: distribution of written marks



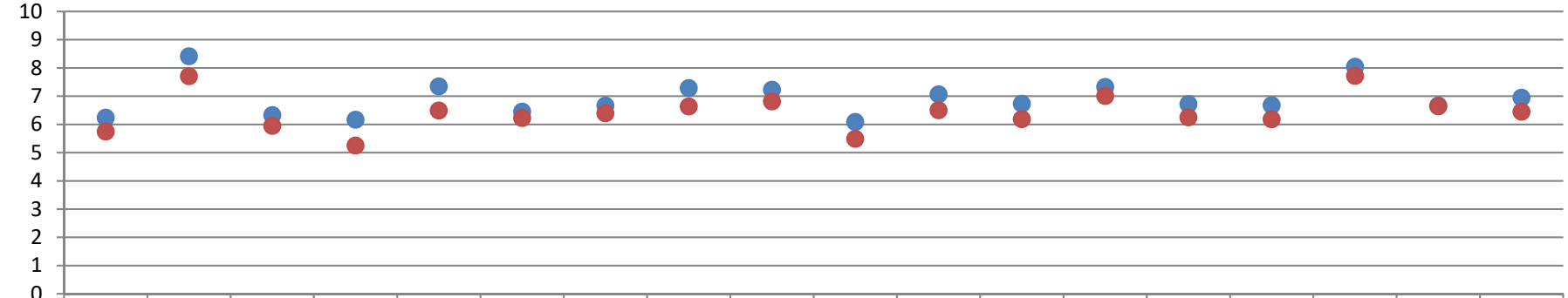
	*PAR	*RHM	ALI	BER	BR1-UCC	BR2-WOL	BR3-IXL	BR4-LAE	FRA	LUX	MAM	MOL	MUN	VAR
90-100	4	2	5	1	6	1	9		4	2	11		7	1
80-89,99	1	2	5	2	16	9	17	11	12	11	10	6	8	6
70-79,99	5	1	4	1	18	13	18	13	6	8	11	4	7	4
60-69,99	1	2	1	7	9	9	8	11		5	5	1	4	2
50-59,99		2	2	3	9	11	4	2	1	7	3	3	5	2
0-49,99		1	2	3	12	11	2	11	1	7	6	1	5	5

8.3.2. Chemistry (Success rate: 77.44%)

School year	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	ALI	BER	BR 1	BR 2	BR 3	BR 4	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2016/2017	1,95	7,44		5,27	3,37	7,08	7,28	5,80	5,93		7,49	6,47	7,43	7,43	7,53	7,04	8,14	6,99	7,13	7,68	7,33	7,08	7,48	7,18
2017/2018	6,44	7,69				9,60	7,52	7,18	7,47	7,40	7,54	5,99	7,69	7,11	6,72	7,45	7,78	7,54	7,72	7,13	7,43	7,55	7,43	7,31
2018/2019	7,33	7,33	8,17	6,81		7,93	8,23	6,97	6,34	5,08	7,79	7,92	7,33	7,61	7,54	7,27	8,06	7,19	7,47	7,79	7,42	8,00	8,78	7,56
2019/2020	7,77	8,64	6,99	6,42		7,88	8,35	6,58	8,38	6,89	8,55	7,56	7,25	8,05	7,72	7,69	8,34	8,27	7,96	8,49	7,79	8,59	8,00	7,91
2020/2021	**6,29**	**7,61**	**6,00**	**6,04**	**7,10**	**7,67**	**8,06**	**6,14**	**5,72**	**4,10**	**6,93**	**6,34**	**6,53**	**6,96**	**7,03**	**5,79**	**6,79**	**6,46**	**7,17**	**6,44**	**6,43**	**7,89**	**6,66**	**6,69**

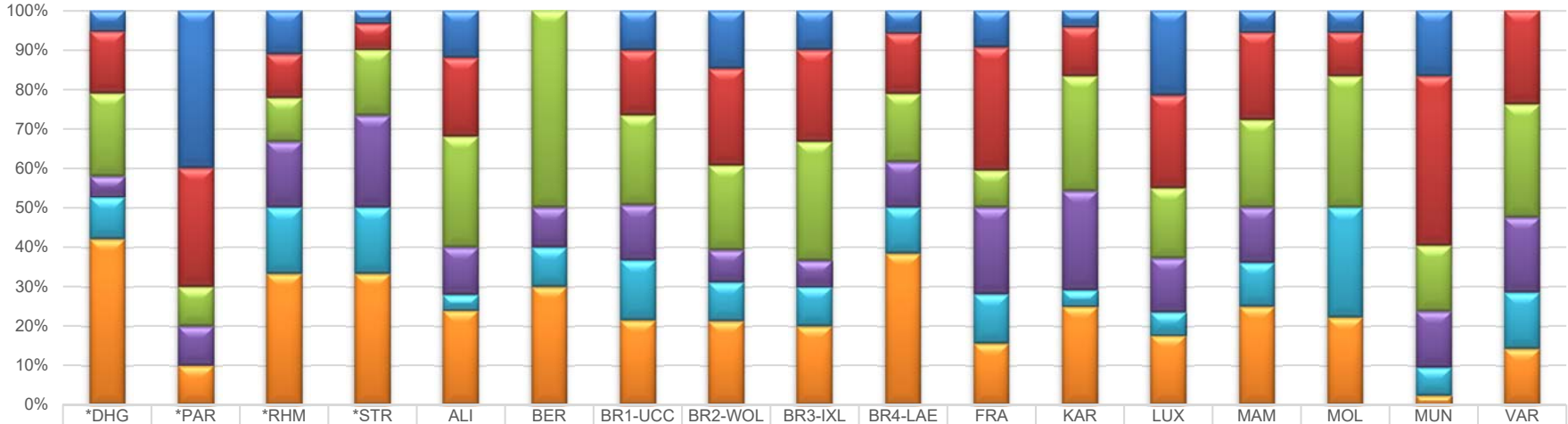


Chemistry: comparison W1 vs W2



	*DHG (19)	*PAR (10)	*RHM (18)	*STR (30)	ALI (25)	BER (10)	BR1-UCC (79)	BR2-WOL (61)	BR3-IXL (60)	BR4-LAE (52)	FRA (32)	KAR (24)	LUX (51)	MAM (36)	MOL (18)	MUN (42)	VAR (21)	Ave. (616)
WR 1	6,24	8,42	6,33	6,17	7,35	6,46	6,67	7,29	7,23	6,09	7,07	6,74	7,33	6,72	6,68	8,05	6,67	6,95
WR 2	5,75	7,71	5,95	5,26	6,49	6,23	6,40	6,64	6,82	5,49	6,50	6,19	7,01	6,26	6,18	7,72	6,64	6,45

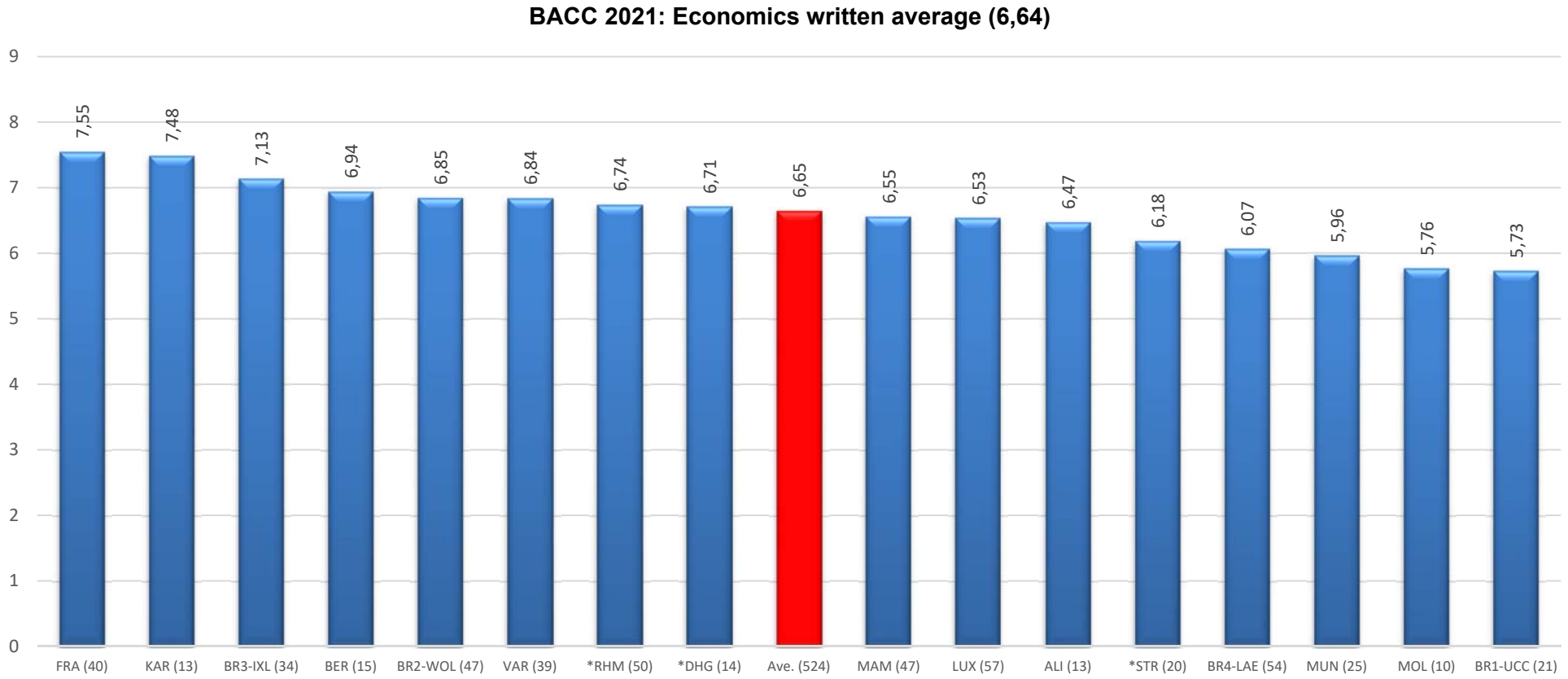
Chemistry: distribution of written marks



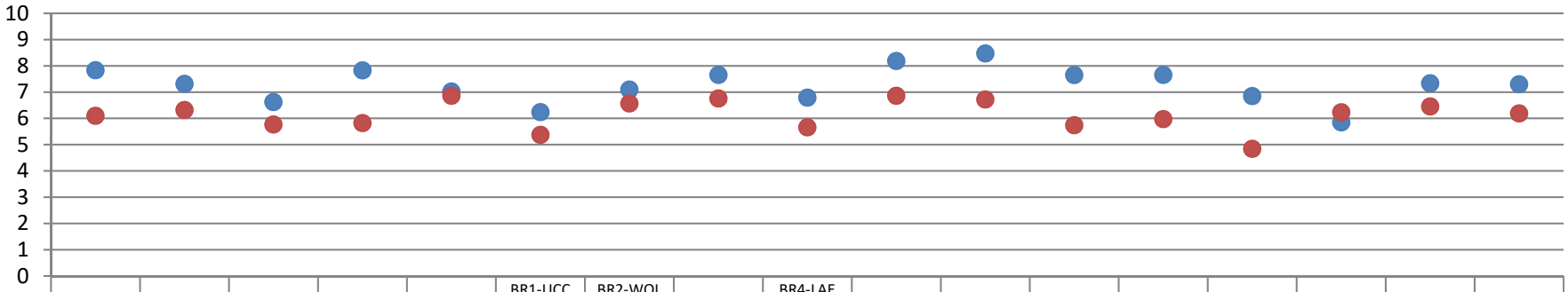
	*DHG	*PAR	*RHM	*STR	ALI	BER	BR1-UCC	BR2-WOL	BR3-IXL	BR4-LAE	FRA	KAR	LUX	MAM	MOL	MUN	VAR
90-100	1	4	2	1	3		8	9	6	3	3	1	11	2	1	7	
80-89,99	3	3	2	2	5		13	15	14	8	10	3	12	8	2	18	5
70-79,99	4	1	2	5	7	5	18	13	18	9	3	7	9	8	6	7	6
60-69,99	1	1	3	7	3	1	11	5	4	6	7	6	7	5		6	4
50-59,99	2		3	5	1	1	12	6	6	6	4	1	3	4	5	3	3
0-49,99	8	1	6	10	6	3	17	13	12	20	5	6	9	9	4	1	3

8.3.3. Economics (Success rate: 85.64%)

School year	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	ALI	BER	BR 1	BR 2	BR 3	BR 4	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2016/2017	6,50	7,94		7,15	6,90		6,74	7,63	6,69		7,32	6,14	7,01	7,39	6,82	7,16	7,54	7,77	6,85	7,32	6,10	7,35	7,33	**7,14**
2017/2018	5,56	7,49		6,92			8,50	7,55	7,04	7,80	6,64	5,29	6,72	7,40	7,30	7,06	7,81	6,98	7,72	6,93	6,32	6,43	7,81	7,17
2018/2019	6,71	8,13	7,49	8,21			7,52	7,29	7,04	5,08	8,93	8,43	6,29	7,20	7,54	6,92	7,90	7,23	7,25	6,31	6,63	7,47	7,14	7,12
2019/2020	7,45	8,40	9,23	7,18			8,49	8,31	7,42		8,73	7,09	6,96	8,12	8,27	8,26	8,39	8,49	8,11	8,35	7,60	8,24	8,41	8,18
2020/2021	**6,50**	**7,90**	**6,71**	**6,68**			**6,34**	**6,74**	**6,18**	**6,42**	**6,47**	**6,94**	**5,73**	**6,85**	**7,13**	**6,07**	**7,55**	**7,48**	**6,53**	**6,55**	**5,76**	**5,96**	**6,84**	**6,64**

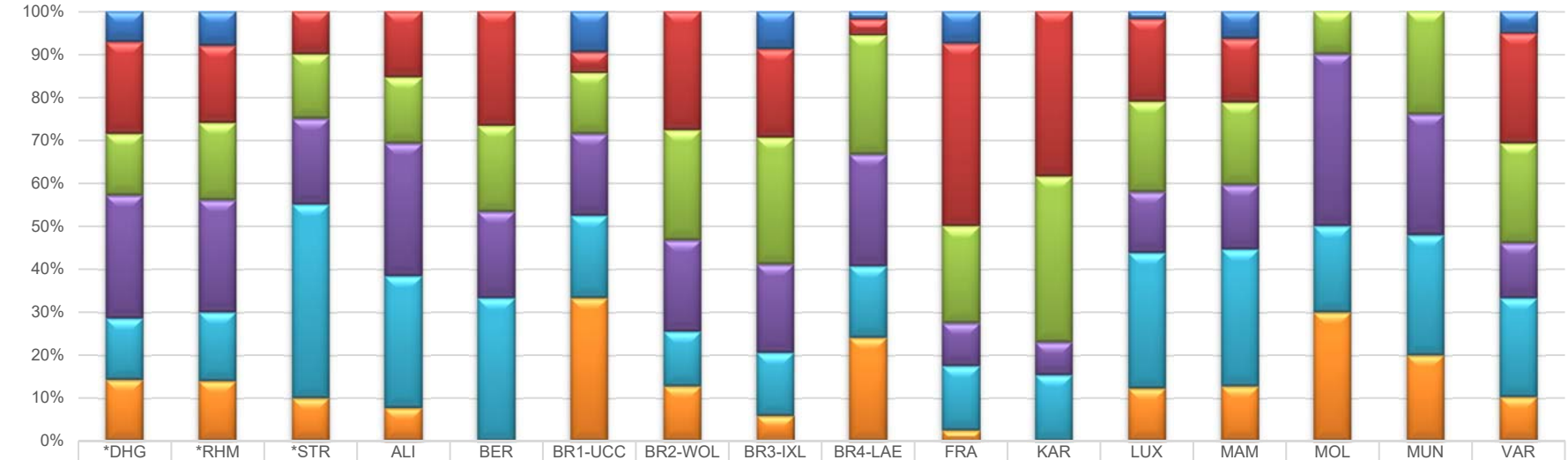


Economics: comparison W1 vs W2



	*DHG (14)	*RHM (50)	*STR (20)	ALI (13)	BER (15)	BR1-UCC (21)	BR2-WOL (47)	BR3-IXL (34)	BR4-LAE (54)	FRA (40)	KAR (13)	LUX (57)	MAM (47)	MOL (10)	MUN (25)	VAR (39)	Ave. (524)
WR 1	7,83	7,32	6,62	7,83	7,02	6,24	7,10	7,65	6,79	8,19	8,47	7,65	7,66	6,85	5,85	7,34	7,30
WR 2	6,10	6,32	5,77	5,82	6,86	5,37	6,57	6,76	5,66	6,86	6,72	5,74	5,97	4,85	6,23	6,46	6,19

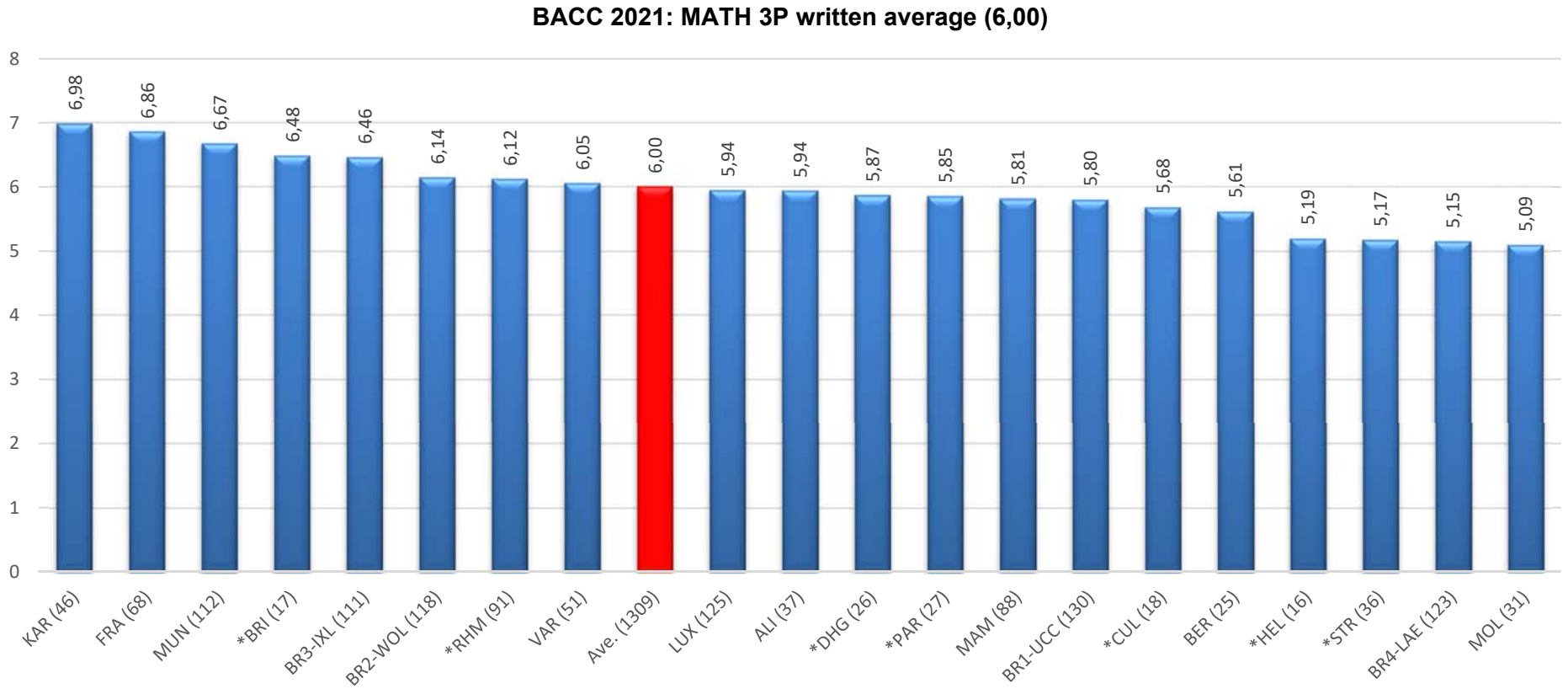
Economics: distribution of written marks



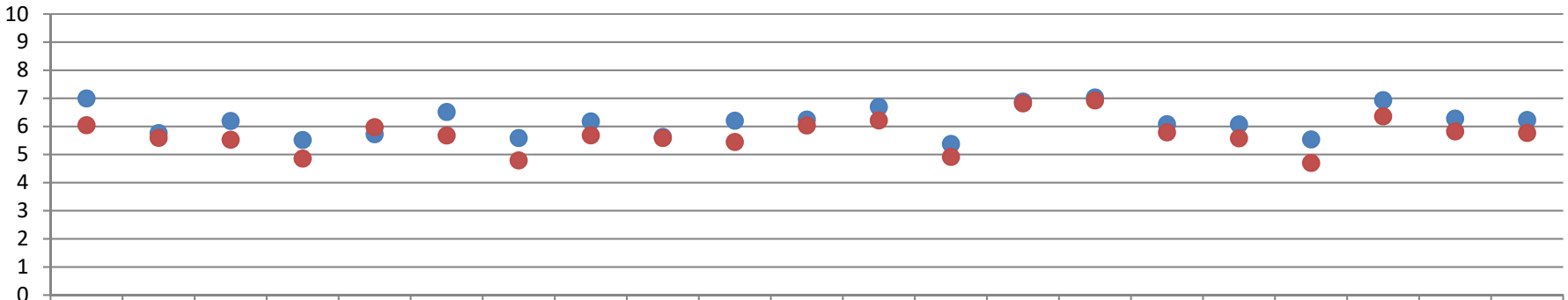
	*DHG	*RHM	*STR	ALI	BER	BR1-UCC	BR2-WOL	BR3-IXL	BR4-LAE	FRA	KAR	LUX	MAM	MOL	MUN	VAR
90-100	1	4				2		3	1	3		1	3			2
80-89,99	3	9	2	2	4	1	13	7	2	17	5	11	7			10
70-79,99	2	9	3	2	3	3	12	10	15	9	5	12	9	1	6	9
60-69,99	4	13	4	4	3	4	10	7	14	4	1	8	7	4	7	5
50-59,99	2	8	9	4	5	4	6	5	9	6	2	18	15	2	7	9
0-49,99	2	7	2	1		7	6	2	13	1		7	6	3	5	4

8.3.4. Mathematics 3P (Success rate: 70.28%)

School year	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	ALI	BER	BR 1	BR 2	BR 3	BR 4	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2016/2017	4,64	7,17		5,44	5,76	6,19	7,38	6,12	5,05		6,04	6,15	6,31	5,67	6,46	5,25	7,50	6,87	6,31	6,42	5,52	7,01	6,18	**6,31**
2017/2018	3,21	7,13		4,94	4,28	3,03	6,40	6,65	4,76	6,29	5,89	5,95	6,01	5,88	6,26	5,03	6,94	6,89	6,63	6,44	5,52	6,61	6,36	6,14
2018/2019	6,58	7,38	6,82	7,28	4,71	3,04	7,61	7,04	6,41	5,63	6,70	7,49	6,63	7,16	7,16	6,00	7,82	7,17	7,57	6,53	5,28	7,37	6,21	6,85
2019/2020	7,34	8,41	6,07	8,60	5,93	5,30	6,69	7,70	6,44	7,84	7,22	6,44	7,25	7,06	7,77	7,05	8,09	7,74	6,73	7,03	6,43	7,48	7,78	7,27
2020/2021	**6,48**	**5,68**	**5,87**	**5,19**	**4,85**	**3,78**	**5,85**	**6,12**	**5,17**	**5,95**	**5,94**	**5,61**	**5,80**	**6,14**	**6,46**	**5,15**	**6,86**	**6,98**	**5,94**	**5,81**	**5,09**	**6,67**	**6,05**	**6,00**

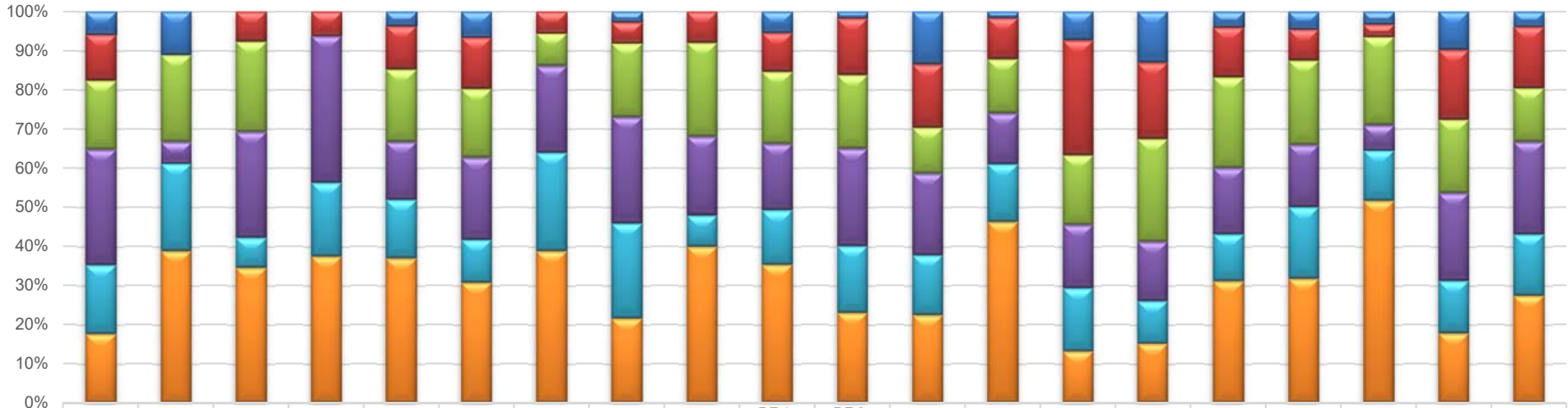


Mathematics 3P: comparison W1 vs W2



	*BRI (17)	*CUL (18)	*DHG (26)	*HEL (16)	*PAR (27)	*RHM (91)	*STR (36)	ALI (37)	BER (25)	BR1-UCC (130)	BR2-WOL (118)	BR3-IXL (111)	BR4-LAE (123)	FRA (68)	KAR (46)	LUX (125)	MAM (88)	MOL (31)	MUN (112)	VAR (51)	Ave. (1309)
WR 1	7,00	5,76	6,19	5,52	5,72	6,52	5,59	6,18	5,63	6,21	6,24	6,70	5,38	6,89	7,03	6,08	6,08	5,54	6,94	6,28	6,23
WR 2	6,05	5,59	5,53	4,86	5,98	5,68	4,79	5,69	5,59	5,45	6,04	6,22	4,92	6,82	6,93	5,79	5,58	4,70	6,36	5,83	5,77

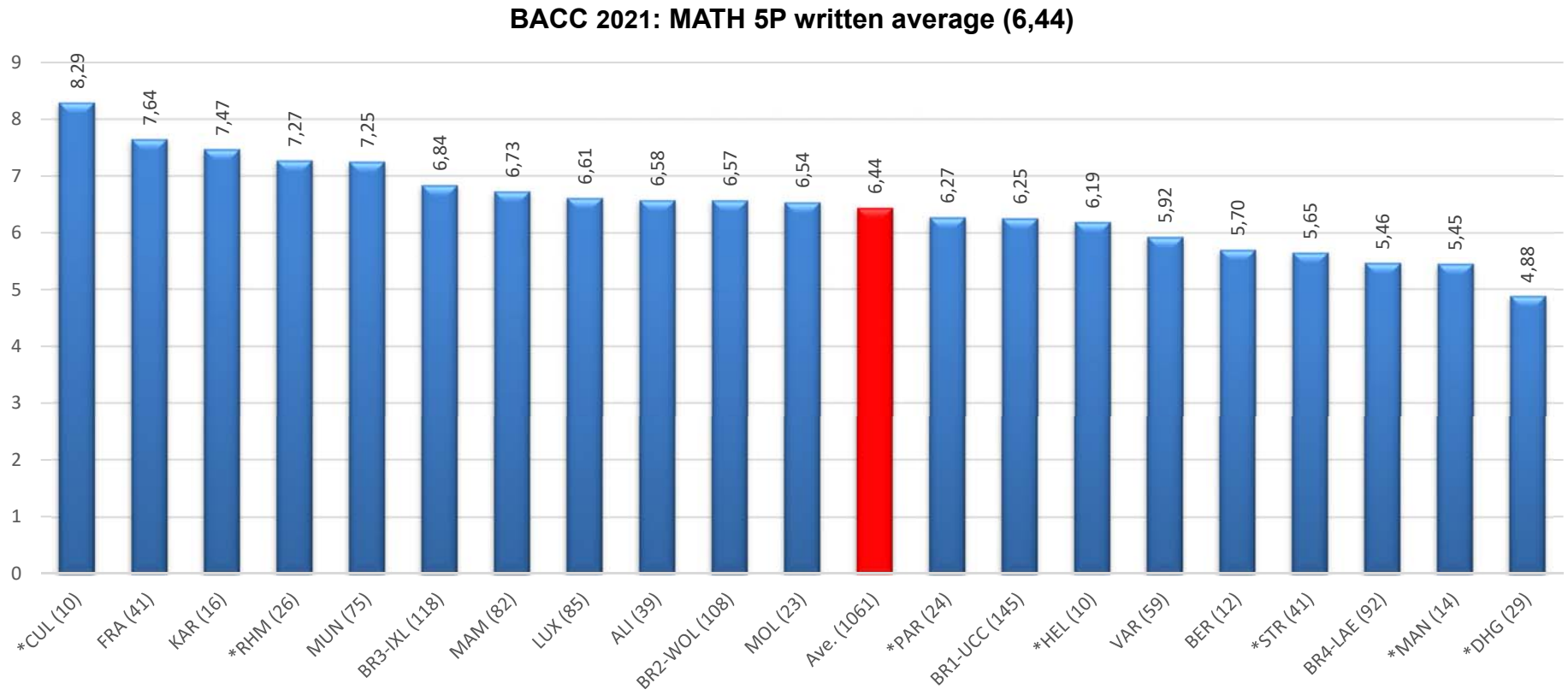
MATH 3P: distribution of written marks



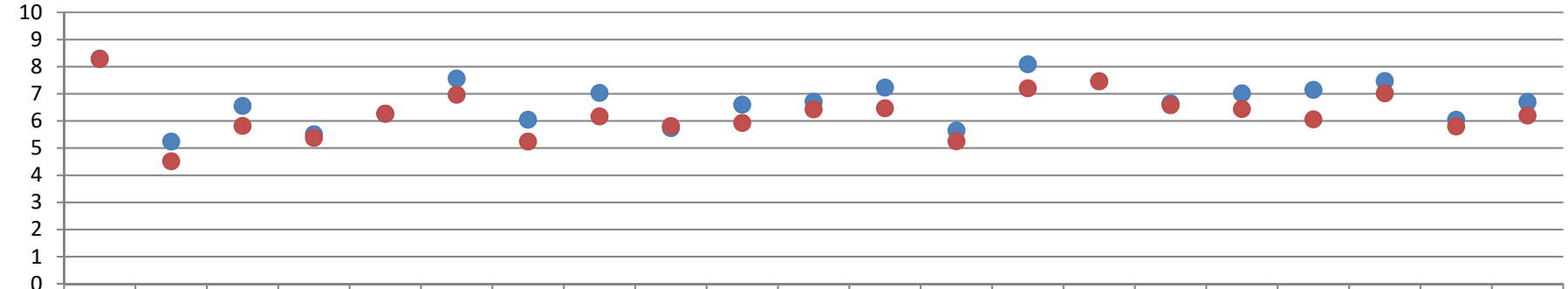
	*BRI	*CUL	*DHG	*HEL	*PAR	*RHM	*STR	ALI	BER	BR1-UCC	BR2-WOL	BR3-IXL	BR4-LAE	FRA	KAR	LUX	MAM	MOL	MUN	VAR
90-100	1	2			1	6		1		7	2	15	2	5	6	5	4	1	11	2
80-89,99	2		2	1	3	12	2	2	2	13	17	18	13	20	9	16	7	1	20	8
70-79,99	3	4	6		5	16	3	7	6	24	22	13	17	12	12	29	19	7	21	7
60-69,99	5	1	7	6	4	19	8	10	5	22	29	23	16	11	7	21	14	2	25	12
50-59,99	3	4	2	3	4	10	9	9	2	18	20	17	18	11	5	15	16	4	15	8
0-49,99	3	7	9	6	10	28	14	8	10	46	27	25	57	9	7	39	28	16	20	14

8.3.5. Mathematics 5P (Success rate: 76.15%)

School year	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	ALI	BER	BR 1	BR 2	BR 3	BR 4	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2016/2017	4,59	7,83		6,02	6,10	7,07	6,96	7,57	5,96		7,02	6,35	7,23	7,14	6,99	6,49	7,75	8,03	7,16	7,04	6,71	7,77	7,46	**7,11**
2017/2018	5,22	7,76		4,36		7,39	7,56	6,62	6,03		5,34	6,30	6,74	6,27	6,08	5,98	7,55	7,61	7,13	6,64	6,63	6,99	6,78	6,54
2018/2019	7,02	8,25	5,60	6,19		7,13	8,34	7,64	6,00	3,66	6,35	6,51	6,25	6,75	7,34	6,58	8,33	7,89	7,63	6,82	6,20	7,66	7,08	6,97
2019/2020	8,98	8,01	8,08	8,53		6,91	8,06	8,71	7,69	7,24	8,50	8,58	7,70	8,08	7,97	7,39	8,46	8,33	7,95	8,07	7,16	8,18	7,56	7,93
2020/2021	**6,19**	**8,29**	**4,88**	**6,19**		**5,45**	**6,27**	**7,27**	**5,65**	**4,30**	**6,58**	**5,70**	**6,25**	**6,57**	**6,84**	**5,46**	**7,64**	**7,47**	**6,61**	**6,73**	**6,54**	**7,25**	**5,92**	**6,44**

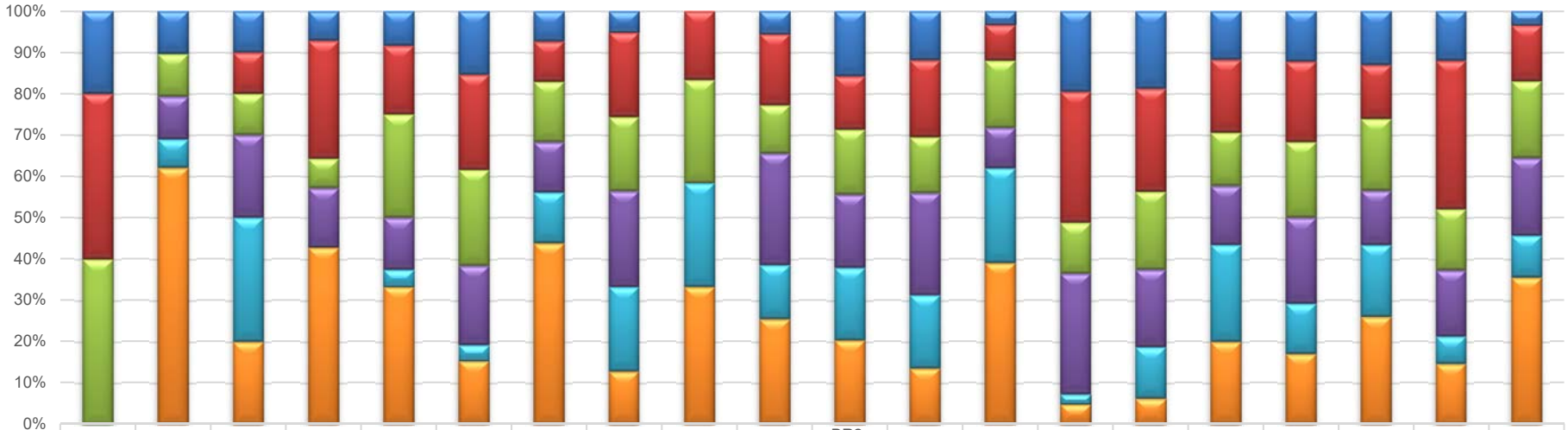


Mathematics 5P: comparison W1 vs W2



	*CUL (10)	*DHG (29)	*HEL (10)	*MAN (14)	*PAR (24)	*RHM (26)	*STR (41)	ALI (39)	BER (12)	BR1-UCC (145)	BR2-WOL (108)	BR3-IXL (118)	BR4-LAE (92)	FRA (41)	KAR (16)	LUX (85)	MAM (82)	MOL (23)	MUN (75)	VAR (59)	Ave. (1061)
WR 1	8,30	5,24	6,56	5,51	6,26	7,57	6,05	7,03	5,74	6,60	6,71	7,23	5,65	8,09	7,47	6,65	7,02	7,15	7,47	6,05	6,70
WR 2	8,28	4,51	5,82	5,38	6,27	6,97	5,24	6,17	5,81	5,92	6,43	6,47	5,25	7,20	7,46	6,58	6,44	6,06	7,02	5,80	6,20

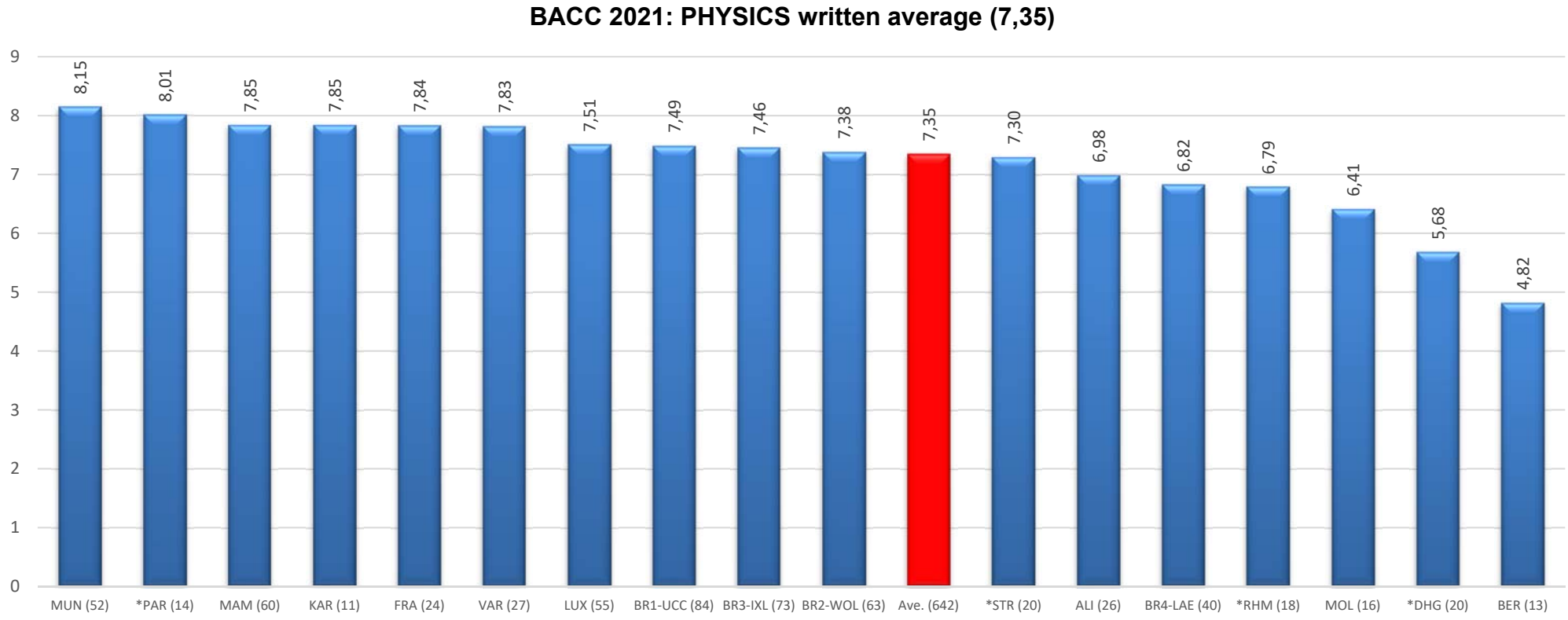
MATH 5P: distribution of written marks



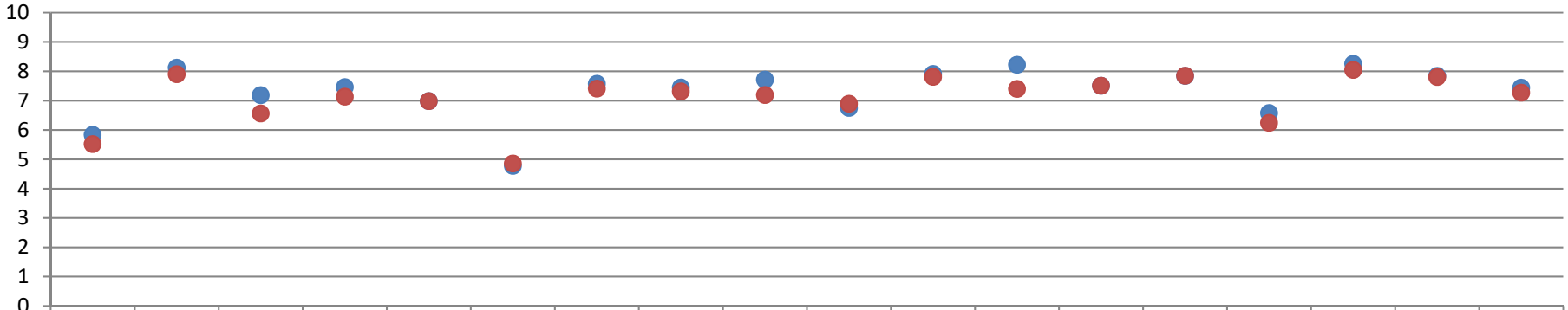
	*CUL	*DHG	*HEL	*MAN	*PAR	*RHM	*STR	ALI	BER	BR1-UCC	BR2-WOL	BR3-IXL	BR4-LAE	FRA	KAR	LUX	MAM	MOL	MUN	VAR
90-100	2	3	1	1	2	4	3	2		8	17	14	3	8	3	10	10	3	9	2
80-89,99	4		1	4	4	6	4	8	2	25	14	22	8	13	4	15	16	3	27	8
70-79,99	4	3	1	1	6	6	6	7	3	17	17	16	15	5	3	11	15	4	11	11
60-69,99		3	2	2	3	5	5	9		39	19	29	9	12	3	12	17	3	12	11
50-59,99		2	3		1	1	5	8	3	19	19	21	21	1	2	20	10	4	5	6
0-49,99		18	2	6	8	4	18	5	4	37	22	16	36	2	1	17	14	6	11	21

8.3.6. Physics (Success rate: 85.36%)

School year	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	ALI	BER	BR 1	BR 2	BR 3	BR 4	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2016/2017	3,70	8,27		6,19	6,65	8,05	7,71	6,65	6,84		7,62	5,95	7,61	7,27	7,86	6,97	8,04	7,47	7,08	7,62	6,89	8,07	8,11	**7,44**
2017/2018	4,95	9,15		7,36	7,38	8,12	8,06	7,37	7,58		6,79	7,10	8,23	7,80	7,92	7,60	8,18	8,17	8,16	7,92	8,12	8,64	8,32	7,92
2018/2019	6,50	8,48	7,01	7,59	4,15	8,33	8,80	7,75	7,39		6,62	7,04	7,38	7,56	8,07	7,26	8,24	7,01	8,26	7,61	7,49	8,19	6,93	7,65
2019/2020	8,43	7,97	7,20	7,47	5,48	7,61	7,88	8,71	8,07	7,49	8,60	8,07	7,86	8,24	8,31	7,93	8,15	8,39	7,99	8,26	8,01	8,52	8,44	8,14
2020/2021	**9,70**	**8,65**	**5,68**	**6,65**	**3,35**	**6,79**	**8,01**	**6,79**	**7,30**	**5,55**	**6,98**	**4,82**	**7,49**	**7,38**	**7,46**	**6,82**	**7,84**	**7,85**	**7,51**	**7,85**	**6,41**	**8,15**	**7,83**	**7,35**

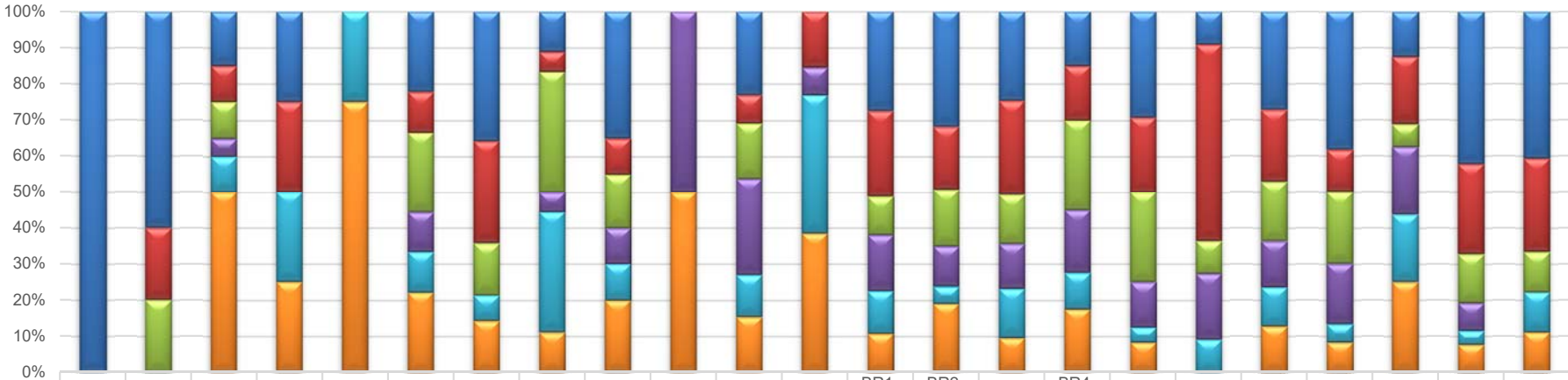


Physics: comparison W1 vs W2



	*DHG (20)	*PAR (14)	*RHM (18)	*STR (20)	ALI (26)	BER (13)	BR1-UCC (84)	BR2-WOL (63)	BR3-IXL (73)	BR4-LAE (40)	FRA (24)	KAR (11)	LUX (55)	MAM (60)	MOL (16)	MUN (52)	VAR (27)	Ave. (642)
WR 1	5,84	8,12	7,19	7,46	6,98	4,78	7,57	7,44	7,72	6,75	7,91	8,22	7,51	7,84	6,58	8,25	7,84	7,44
WR 2	5,52	7,90	6,56	7,14	6,98	4,85	7,41	7,31	7,19	6,89	7,81	7,40	7,50	7,85	6,24	8,04	7,81	7,27

PHYSICS: distribution of written marks



	*BRI	*CUL	*DHG	*HEL	*HER	*MAN	*PAR	*RHM	*STR	*TAL	ALI	BER	BR1-UCC	BR2-WOL	BR3-IXL	BR4-LAE	FRA	KAR	LUX	MAM	MOL	MUN	VAR
90-100	2	3	3	1		2	5	2	7		6		23	20	18	6	7	1	15	23	2	22	11
80-89,99		1	2	1		1	4	1	2		2	2	20	11	19	6	5	6	11	7	3	13	7
70-79,99		1	2			2	2	6	3		4		9	10	10	10	6	1	9	12	1	7	3
60-69,99			1			1		1	2	1	7	1	13	7	9	7	3	2	7	10	3	4	
50-59,99			2	1	1	1	1	6	2		3	5	10	3	10	4	1	1	6	3	3	2	3
0-49,99			10	1	3	2	2	2	4	1	4	5	9	12	7	7	2		7	5	4	4	3

9. EB Report 2021 On-Line Version: Interactive graphs

Graphs available on-line. Please see Introduction of the report.

01	Candidates by School
02	Candidates by Subject
03	Final Mark Averages
04	Final Mark by school and subject-language Box Chart
05	Final Mark by subject and school Box Chart
06	Distribution of candidates by school and BACC mark
07	Averages A, B, C, W, O and final
08	Written and Oral corrections by school, section and subjects
09	Averages per school and subject
10	SWALS
11	Additional Written Examinations
12	Literary subjects
13	Scientific subjects