

## Centre Determined Grades – Draft Subject Assessment Plans

Learning Area: **Mathematics**

Subject: **Further Mathematics**

GCSE/AS/A2/Other: **AS /A2**

No. of entries: **4**

### **Rationale**

Need to give all students fair opportunities to prove selves equitably irrespective of self-isolation / lockdown periods. Awarding individual students with fair grades they have shown evidence of achieving using recommended assessment frameworks provided by WJEC, following a robust and internal and external moderation process will be at the heart of the process.

The school has been asked to submit centre determined grades (CDGs) to enable the award of GCSE, AS, A level and Skills Challenge Certificate (SCC) qualifications. Subject Leaders will identify the scope of evidence which will be used to contribute towards the Centre Determined Grades. This information will be shared with students and Parents. The portfolios of evidence are evolving documents and will be updated following release of materials from the WJEC.

All subject teachers must ensure that access arrangements and special considerations are taken into account for each student who would have received additional support during exams eg extra time, reader, scribe.

All teachers will compile the evidence base for each student they teach and keep in individual student folders. Moderation will take place between subject areas and will be quality assured by members of the SLT. Grades will be determined following the guidance issued by the WJEC and must be evidence based, it cannot be on the basis of potential. Teachers will use the grade descriptors issued by the WJEC to inform their judgement.

The school will submit its CDGs by the deadline, 2<sup>nd</sup> of July 2021 using the system provided by WJEC for capture of the grades. Provisional grades will be shared with students prior to this and students will have the opportunity to go through an appeal if they do not agree with the grade awarded or they think an error has been made. Students cannot appeal if they are just not happy with their grade. If students do appeal a review of the grading process will take place using the evidence from the teacher. Students will be told of the results of this review prior to the submission of the grade to the WJEC.

### **Type of supervision for assessments**

**High** : Formal supervision. Students produce their work under direct supervision and with a restricted set of resources, usually during class time. No assistance may be given to students. This is not achievable online.

**Medium** : Informal supervision. Work is mainly completed under teacher supervision in the classroom, e.g. writing up investigations. This can be achieved virtually using monitoring platforms online such as Class Notebook and Spiral, well designed assessments where simple answers cannot be harvested from an internet search engine or peers, strict time frames of completion.

**Low**: Limited supervision. Work may be completed outside of the classroom without direct supervision. Most but not all online completed assessments would be considered low control due to the inability to monitor students at home.

### Type of assessment

**Standardised Assessment Material (SAMS)**- these are materials/assessments provided by the WJEC with mark schemes provided. They could be past papers or the material for the adapted specifications.

**A Centre Devised Assessment (CDA)** –an assessment created by the teacher/department. If assessments have been created the teacher must have completed the online training that is on WJEC Secure Website, read the WJECs Centre Assessment Creation Guide and undergone QA with SLT link.

**Non-examination assessment materials (NEA)** – this could be part or fully completed

### What Evidence/Assessments have already been collected/taken?

Type of Evidence/Assessment	Date collected	How it links to specification	Type of Supervision H/M/L	Weighting of qualification	Type of assessment
Mock Unit 1	December 2020	Full unit 1 paper (2019)	H	13 1/3%	2019 Unit 1 WJEC paper
Mock Unit 2	December 2020	Unit 2 paper (2019) (not Poisson)	H	13 1/3%	2019 Unit 2 WJEC paper
Mock Unit 3	December 2020	Collisions Power Hooke's Law	H	13 1/3%	Questions from the 2019 Unit 3 WJEC paper

		Circular Motion			
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**What Evidence/Assessments are planned?**

Type of Evidence/Assessment	Date Planned	How it links to specification	Type of Supervision H/M/L	Weighting of qualification	Type of assessment
Class based topic assessments for Unit 4	WB 22 <sup>nd</sup> March	Polar coordinates and Matrices	H	35%	SAMs
	WB 12 <sup>th</sup> April	General trig equations / trig formula / mean value			
	WB 19 <sup>th</sup> April	Partial fractions with integration / differentiating inverse trig / hyperbolic			
	WB 26 <sup>th</sup> April	Volumes of revolution with hyperbolic			
	WB 3 <sup>rd</sup> May	Integration methods / complex roots and polygons			
Class based topic assessments for Unit 2/5	WB 22 <sup>nd</sup> March	Expectation and Variance for linear combinations of independent variables	H	Unit 2: 13 1/3% Unit 5: 25%	SAMs and CDA
	WB 12 <sup>th</sup> April	Poisson and exponential function, discrete probability distributions.			
		Continuous probability functions, Probability density functions			

	<p>WB 19<sup>th</sup> April</p> <p>WB 26<sup>th</sup> April</p> <p>WB 3<sup>rd</sup> May</p> <p>WB 10<sup>th</sup> May</p> <p>WB 17<sup>th</sup> May</p> <p>WB 24<sup>th</sup> May</p>	<p>Correlation coefficients and hypothesis testing, least squares regression lines</p> <p>Chi Squared goodness of fit test and test of association.</p> <p>Normal distribution (missing variance), combination of 2 independent normal distributions)</p> <p>Hypothesis testing Large sample</p> <p>Confidence intervals for the sample mean</p>			
Class based topic assessments for Unit 3	<p>WB 22<sup>nd</sup> March</p> <p>WB 19<sup>th</sup> April</p> <p>WB 3<sup>rd</sup> May</p>	<p>Work energy power</p> <p>Impulse and collisions</p> <p>Hooke's law and elastic potential energy</p>	H	Unit 3: 13 1/3%	SAMs

	WB 17 <sup>th</sup> May	Circular motion			
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**What assessment arrangements are needed for ALN students?**

This information is confidential and held securely in school

**What Moderation and QA processes have taken place/need to take place?**

Date	Details	Who was present	Outcome of meeting
	To be arranged		

**Have you any potential conflicts of interest and if so what has been done to mitigate their effects?**

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