Academic Year العام الدراسي	2023/2024
Term الفصل	1
Subject المادة	Mathematics/Reveal الرياضيات/ريفيل
Grade الصف	8
Stream المسار	Advanced المتقدم
Number of MCQ عدد الأسئلة الموضوعية	15
Marks of MCQ درجة الأسئلة الموضوعية	4
Number of FRQ عدد الأسئلة المقالية	5
Marks per FRQ الدرجات للأسئلة المقالية	(6-10)
Type of All Questions نوع كافة الأسئلة	الأسئلة الموضوعية /MCQ الأسئلة المقالية /FRQ
Maximum Overall Grade الدرجة القصوى الممكنة	100
Exam Duration - منة الامتحان	150 minutes
Mode of Implementation - طريقة التطبيق	SwiftAssess & Paper-Based
Calculator الآلة الحاسبة	Not Allowed غير مسموحة

	Question* السؤال*	Learning Outcome/Performance Criteria** نتائج التعلم/ معايير الأداء**	Reference(s) in the Student Book (Arabic Version) المرجع في كتاب الطالب (النسخة العربية)	
			Example/Exercise مثال/تمرين	Page الصفحة
MCQ - الأسئلة الموضوعية	1	Use integer exponents to show repeated multiplication of rational number	3-9	11
	2	Use the laws of exponents to multiply and divide monomials with common bases.	1-9	23
	3	Use the power of powers property and the power of a product property to simplify expressions with integer exponents. / Use the zero exponent rule and the qoutient of powers property to simplify expressions with zero and negative integer exponents.	1-10 1-12	31 41
	4	Write very large and very small numbers using scientific notation	1-6	53
	5	Show how the decimal form of a rational number repeats itself	1-4	77
	6	Convert repeating decimal into a rational number.	5-8	77
	7	Find square and cube roots	1-7	89
	8	Use square and cube roots to solve equations involving perfect squares and cubes	8-12	89-90
	9	Identify irrational numbers and name the set(s) of real numbers to which a given real number belongs	1-11	99
	10	Use the properties of equality to solve equations with variables on each side that have rational coefficients	1-6	135
	11	Write linear equations in one variable with rational coefficients and use the proprties of equality to solve them	1-5	143
	12	Solve multi-step linear equations with rational coefficients by using the distributive property and combining like terms	1-7	149
	13	Identify the slope of a line and interpret it as the rate of the change within the context of the problem	1-6	203
	14	Identify similar triangles that fall on the same line in a coordinate plane and show that the slopes of the lines are equal	1-5	211
	15	Derive the equation y=mx from the slope formula and use direct variation equations to represent and solve real-world and mathematical problems	1-7	223-224
FRQ - الأسئلة المقالية	16	Perform computations with numbers written in scientifc notation.	1-8	61-62
	17	Estimate irrational numbers by approximating their locations on a number line or by truncating their decimal expansion	10-17	109-110
	18	Use rational approximations to compare and order real numbers, including irrational numbers	1-7	121
	19	Write and solve multi-step linear equations with rational coefficients by using the Distributive property and combining like terms / Identify the number of solutions of a linear equation in one variable by simplifying each side and comparing coefficients and constants.	1-5 1-9	157-158 168
	20	Write equations of the form y=mx+b when given a table, graph, or verbal description.	11-16	236

*	Questions might appear in a different order in the actual exam, or on the exam paper in the case of G3, G4 and G5.
*	قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، أو على ورقة الامتحان في حالة الصفوف G4، G3 وG5
**	As it appears in the textbook, LMS, and (Main_IP).
**	كما وردت في كتاب الطالب وLMS والخطة الفصلية.