Academic Year	2024/2025	
العام الدراسي		
Term	1	
الفصل		
Subject	Mathematics/Reveal	
المادة	الرياضيات/ريفيل	
Grade	8	
الصف		
Stream	Advanced	
المسار	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	5-10	
Type of All Questions نوع كافة الأسئلة	الأسئلة الموضوعية /MCQ الأسئلة المقالية /FRQ	
Maximum Overall Grade الدرجة القصوى الممكنة	100	
Exam Duration - مدة الامتحان	150 minutes	
Mode of Implementation طريقة التطبيق:	SwiftAssess & Paper-Based	
Calculator	Not Allowed	
الآلة الحاسبة	غير مسموحة	

Question*	Learning Outcome/Performance Criteria**		Reference(s) in the Student Book (Arabic Version)	
			المرجع في كتاب الطالب (النسخة العربية)	
			Example/Exercise	Page
السؤال*	نتائج التعلم / معايير الأداء**		مثال/تمرين	الصفحة
FRQ				
1	Perform computations with numbers written in scientific notation.		7-12	62
2	Estimate irrational numbers by approximating their locations on a number line or by truncating their decimal expansions.		1-10	109
3	Use rational approximations to compare and order real numbers, including irrational numbers.		1-7	121
			8-13	122
4	Use the properties of equality to solve equations with variables on each side that have rational coefficients.		1-8	135
5	Write equations of the form y = mx + b when given a table, graph, or verbal description.		1-10	235
MCQ				
6	Use integer exponents to show repeated multiplication of rational numbers.		Examples 1 & 2	5,6
			1-9	11
7	Use the Laws of Exponents to multiply and divide monomials with common bases.		1-9	23
8	Use the Power of a Power Property and the Power of a Product Property to simplify expressions with integer exponents.		1-10	31
9	Write very large and very small numbers using scientific notation.		1-10	53
10	Convert a repeating decimal into a rational number.		Learn	70
			1-12	77
11	Find square and cube roots.		1-5	89
12	Use square and cube roots to solve equations involving perfect squares and cubes.		6-10	89
13	Identify irrational numbers and name the set(s) of real numbers to which a given real number belongs.		1-13	99
14	Write and solve multi-step linear equations with rational coefficients by using the Distributive Property and combining like terms.		Examples	152-153
			1-3	157
15	Write linear equations in one variable with rational coefficients and use the properties of equality to solve them.		Examples	138-139
			1-5	143
16	Identify the number of solutions of a linear equation in one variable by simplifying each side and comparing coefficients and constants.		1-9	167
17	Solve multi-step linear equations with rational coefficients by using the Distributive Property and combining like terms.		1-7	149
18	Graph and compare proportional relationships using words, equations, and tables and interpret the unit rate as the slope of the line.		Examples	177-180
			1-4	189
19	Identify similar triangles that fall on the same line in a coordinate plane and show that the slopes of the lines are equal.		Example	208
			1-5	211
20	Derive the equation y = mx from the slope formula and use direct variation equations to represent and solve real-world and mathematical problems.		6-11	224

*	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 G3، G4 وG5
**	As it appears in the textbook, LMS, and (Main_IP).
**	كما وردت في كتاب الطالب وLMS والخطة الفصلية.