



Grade 07 General Stream Scheme of Work, Term 2, Academic Year 2022-2023

Purpose

- to define the **required** General Stream Mathematics Student Learning Outcomes to be covered during the term for this grade
- to **recommend** the pace at which the Student Learning Outcomes are to be covered. The term's content is broken down into **nine** teaching weeks, allowing the coverage of topics within each week to be flexible.

Assessment

- Assessment details for Term 2 will be communicated separately.

Teachers should incorporate the Standards for Mathematical Practice (SMPs) in their instruction when and where appropriate. The Standards for Mathematical Practice are

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Why are the Standards for Mathematical Practice important?

The Standards for Mathematical Practice set expectations for using mathematical language and representations to reason, solve problems, and model in preparation for careers and a wide range of college majors.

Week 1: Jan. 2 – Jan. 6, 2023				
CHAP NBR	CHAP TITLE	LESSON NBR	LESSON TITLE	Slo.EN
Chapter 5	Expressions التعابير	Lesson 1	Algebraic Expressions التعابير الجبرية	Evaluate simple algebraic expressions
Chapter 5	Expressions التعابير	Lesson 2	Sequences المتتاليات	Describe the relationships and extend terms in arithmetic sequences.
Chapter 5	Expressions التعابير	Lab 1	Inquiry Lab : Sequences مختبر الاستكشاف : المتتاليات	Discover patterns in sequences of geometric figures
Chapter 5	Expressions التعابير	Lesson 3	Properties of Operations خواص العمليات	Identify and use mathematical properties to simplify algebraic expressions.

Week 2: Jan. 9 – 13, 2023				
CHAP NBR	CHAP TITLE	LESSON NBR	LESSON TITLE	Slo.EN
Chapter 5	Expressions التعابير	Lesson 4	The Distributive Property خاصية التوزيع	Apply the Distributive Property to rewrite algebraic expressions.
Chapter 5	Expressions التعابير	Problem-	Problem-Solving Investigation: Make a Table استقصاء حل المسائل : رسم جدول	Solve non-standard problems using tables
Chapter 5	Expressions التعابير	Lesson 5	Simplify Algebraic Expressions تبسيط التعابير الجبرية	Simplify algebraic expressions
Chapter 5	Expressions التعابير	Lesson 6	Add Linear Expressions جمع التعابير الخطية	Add linear expressions
Chapter 5	Expressions التعابير	Lesson 7	Subtract Linear Expressions طرح التعابير الجبرية	Subtract linear expressions

Week 3: Jan. 16 – 20, 2023				
CHAP NBR	CHAP TITLE	LESSON NBR	LESSON TITLE	Slo.EN
Chapter 5	Expressions التعابير	Lab 2	Inquiry Lab : Factor Linear Expressions مختبر الاستكشاف: تحليل التعابير الخطية إلى عوامل	Factor linear expressions using models
Chapter 5	Expressions التعابير	Lesson 8	Factor Linear Expressions تحليل التعابير الخطية إلى عوامل	Read and write integers, and find the absolute value of an integer.
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lab 1	Inquiry Lab : Solve One -Step Addition and Subtraction Equations مختبر الاستكشاف : حل معادلات الجمع والطرح ذات الخطوة الواحدة	Write and solve addition and subtraction equations using models
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lesson 1	Solve One Step Addition and Subtraction Equations حل المعادلات الجمع والطرح ذات الخطوة الواحدة	Solve addition and subtraction equations.
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lab 2	Inquiry Lab : Multiplication Equations with Bar Diagrams مختبر الاستكشاف : معادلات الضرب باستخدام الرسوم البيانية الشريطية	Write and solve multiplication equations using chart diagrams

Week 4: Jan. 23 – 27, 2023				
CHAP NBR	CHAP TITLE	LESSON NBR	LESSON TITLE	Slo.EN
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lesson 2	Multiplication and Division Equations معادلات الضرب والقسمة	Solve one -step multiplication and division equations.
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lab 3	Inquiry Lab : Solve Equations with Rational Coefficients مختبر الاستكشاف : حل المعادلات باستخدام المعاملات النسبية	Solve problems with rational coefficients using chart diagrams
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lesson 3	Solve Equations with Rational Coefficients حل المعادلات باستخدام المعاملات النسبية	Solve one -step equations with rational coefficients.
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lab 4	Inquiry Lab : Solve Two Step Equations مختبر الاستكشاف: حل المعادلات المكونة من خطوتين	Solve two-step equations using bar diagrams
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lesson 4	Solve Two Step Equations حل المعادلات المكونة من خطوتين	Solve two -step equations

Week 5: Jan. 30 – Feb. 3, 2023				
CHAP NBR	CHAP TITLE	LESSON NBR	LESSON TITLE	Slo.EN
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lab 5	Inquiry Lab : More Two -Step Equations مختبر الاستكشاف: حل المعادلات المكونة من أكثر من خطوتين	Solve two-step equations of the form $p(x+q)=r$ using models
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lesson 5	More Two Step Equations حل المعادلات المكونة من أكثر من خطوتين	Solve two -step equations of the form $p(x + q) = r$.
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Problem-	Problem-Solving Investigation: Work Backward استقصاء حل المسائل : الحل بترتيب عكسي	Solve non-traditional problems using backward ordering
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lab 6	Inquiry Lab : Solve Inequalities مختبر الاستكشاف : حل المتباينات	Solve problems involving inequalities using models
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lesson 6	Solve Inequalities by Addition or Subtraction حل المتباينات بالجمع أو الطرح	Solve inequalities by using the Addition and Subtraction Properties of Inequality

Week 6: Feb. 6 – 10, 2023				
CHAP NBR	CHAP TITLE	LESSON NBR	LESSON TITLE	Slo.EN
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lesson 7	Solve Inequalities by Multiplication or Division حل المتباينات بالضرب أو القسمة	Solve inequalities by using the Multiplication or Division Properties of Inequality
Chapter 6	Equations and Inequalities المعادلات والمتباينات	Lesson 8	Solve Two Step Inequalities حل المتباينات المكونة من خطوتين	Model and solve two -step inequalities and represent the solution on the number line.
Chapter 7	Geometric Figures الأشكال الهندسية	Lesson 1	Classify Angles تصنيف الزوايا	Classify angles and identify vertical and adjacent angles
Chapter 7	Geometric Figures الأشكال الهندسية	Lesson 2	Complementary and Supplementary Angles الزوايا المتتامه والمتكاملة	Identify pairs of complementary and supplementary angles.
Chapter 7	Geometric Figures الأشكال الهندسية	Lab 1	Inquiry Lab : Create Triangles مختبر الاستكشاف: تصميم المثلثات	Draw triangles using given angles or side lengths

Week 7: Feb. 13 – 17, 2023				
CHAP NBR	CHAP TITLE	LESSON NBR	LESSON TITLE	Slo.EN
Chapter 7	Geometric Figures الأشكال الهندسية	Lesson 3	Triangles المثلثات	Identify and classify triangles and find missing angle measures.
Chapter 7	Geometric Figures الأشكال الهندسية	Lab 2	Inquiry Lab : Draw Triangles مختبر الاستكشاف: رسم المثلثات	Draw triangles using given angles or side lengths
Chapter 7	Geometric Figures الأشكال الهندسية	Problem-	Problem-Solving Investigation: Make a Model استقصاء حل المسائل: إعداد نموذج	Solve non-traditional problems using modelling
Chapter 7	Geometric Figures الأشكال الهندسية	Lab 3	Inquiry Lab : investigate online Maps and Scale Drawings مختبر الاستكشاف: استقصاء الخرائط عبر الإنترنت والرسومات بالمقياس النسبي	Make use of online maps in scale drawings
Chapter 7	Geometric Figures الأشكال الهندسية	Lesson 4	Scale Drawings رسومات المقاييس النسبية	Solve problems involving scale drawings

Week 8: Feb. 20 – 24, 2023				
CHAP NBR	CHAP TITLE	LESSON NBR	LESSON TITLE	Slo.EN
Chapter 7	Geometric Figures الأشكال الهندسية	Lab 4	Inquiry Lab: Scale Drawings مختبر الاستكشاف: رسومات المقاييس النسبية	Make use of online maps in scale drawings
Chapter 7	Geometric Figures الأشكال الهندسية	Lesson 5	Draw Three Dimensional Figures رسم الأشكال ثلاثية الأبعاد	Draw three -dimensional figures given the top, side, and front views.
Chapter 7	Geometric Figures الأشكال الهندسية	Lesson 6	Cross Sections المقاطع العرضية	Identify and draw three - dimensional figures
Chapter 8	Circles	Lab 1	Inquiry lab : Circumference	Explain the relation between the diameter of a circle and its diameter
Chapter 8	Circles	Lesson 1	Circumference	Find the circumference of circles

Week 9: Feb. 27 – Mar. 3, 2023				
CHAP NBR	CHAP TITLE	LESSON NBR	LESSON TITLE	Slo.EN
Chapter 8	Circles	Lab 2	Inquiry lab : Area of Circles	Explore the law for the area of a circle
Chapter 8	Circles	Lesson 2	Area of Circles	Find the area of circles
Chapter 8	Circles	Lesson 3	Area of Composite Figures	Find the area of composite figures
Chapter 8	Circles	Problem-	Problem-Solving Investigation: Solve a Simpler Problem	Solve problems through solving easier ones

Week 10: Mar. 6 – 10, 2023
Term 2 Revision/EOT Exams