

# Zahrat Al-Sahra'a International School

Grade 6 to 7 Entrance Exam

Required Lessons

Academic Year 2019-2020

## Math

### Algebra Toolbox:

- 1-1: Revision + Variables and Expressions
- 1-2: Write Algebraic Expressions
- 1-2.1: Law of Order of Operations
- 1-2.2: Properties: Commutative, Associative, Distributive
- 1-3: Solving Equations by Adding or Subtracting.
- 1-4: Solving Equations by Multiplying or Dividing
- 1-6: Combining Like Terms
- 1-7: Ordered Pairs
- 1-8: Graphing on a Coordinate Plane

### Integers & Exponents:

- 2-1: Adding Integers
- 2-2: Subtracting Integers
- 2-3: Multiplying & Dividing Integers
- 2-4: Solving Equations Containing Integers
- 2-6: Exponents
- 2-7: Properties of Exponents
- 2-7.1: Law of Order of Operations for Exponents
- 2-7.2: LCM & GCD

### Rational & Real Numbers:

- 3-1: Rational Numbers
- 3-2: Adding & Subtracting Rational Numbers
- 3-3: Multiplying Rational Numbers
- 3-4: Dividing Rational Numbers
- 3-5: Adding and Subtracting with Unlike Denominators
- 3-8: Squares and Square Roots
- 3-9: Finding Square Roots
- 3-10: The Real Numbers

### Collecting, Displaying and Analyzing Data:

- 4-3: Measures of Central Tendency
- 4-5: Displaying Data
- 4-7: Scatter Plots

### Plane Geometry:

- 5-1: Points, Lines, Planes and Angles
- 5-2: Parallel and Perpendicular Lines
- 5-3: Triangles
- 5-4: Polygons
- 5-6: Congruence
- 5-7: Transformations

### Perimeter, Area, and Volume:

- 6-1: Perimeter & Area of Rectangles & Parallelograms
- 6-2: Perimeter and Area of Triangles and Trapezoids
- 6-3: The Pythagorean Theorem
- 6-4: Circles

### Ratios and Similarity:

- 7-1: Ratios and Proportions
- 7-2: Ratios, rates and Unit Rates
- 7-4: Solving Proportions

### Percents:

- 8-1: Relating Decimals, Fractions and Percents
- 8-2: Finding Percents
- 8-3: Finding a Number When the Percent is Known
- 8-4: Percent Increase and Decrease

### More Equations and Inequalities:

- 10-1: Solving Two-Step Equations
- 10-2: Solving Multistep Equations

## Arabic

- قراءة النَّصِّ.
- الإجابة على الأسئلة حول النَّصِّ + مرادفات وأضداد من خلال النَّصِّ .
- الفعل المضارع المرفوع - المنصوب - المجزوم .
- فعل الامر .
- التوكيد .
- اسم الزَّمان واسم المكان .
- إعراب الجمل.
- التَّواصل الكتابي .

# English

<b>Literary Genre</b>	<b>Reading Focus Skill</b>	<b>Grammar</b>
1. Personal Narrative	1. Plot and Setting	1. Sentences
2. Historical Fiction	2. Text Structure: Chronological Order	2. Subjects and Predicates
3. Magazine Article	3. Plot and Characters	3. Compound Subjects and Predicates
4. Biography	4. Main Idea and Details	4. Simple and Compound Sentences
5. Realistic Fiction	5. Figurative Language	5. Prepositional Phrases
6. Persuasive Article	6. Theme	6. Clauses and Phrases: complex Sentences
7. Narrative Nonfiction	7. Point of view	7. Compound-Complex Sentences
8. Short Story	8. Make Judgments	8. Common and Proper Nouns
9. Realistic Fiction	9. Compare and Contrast	9. Singular and Plural Nouns
10. How To Article	10. Literary Devices	10. Possessive Nouns
11. Realistic fiction	11. Draw and Evaluate Conclusions	11. Subject and Object Pronouns
12. Myth	12. Characterization	12. Possessive and Reflexive Case Pronouns; Indefinite Pronouns
13. Fable		13. Adjectives
14. Legend		14. Main and Helping Verbs
15. Folktale		
16. Expository Nonfiction		15. Action and Linking Verbs
17. Website		
18. Science Fiction		16. Simple Tenses: Present Tense
19. Play		17. Simple Tenses: Past and Future
		18. Principal Parts of Verbs
		19. Perfect Tenses
		20. Progressive Forms
		21. Contractions
		22. Adverbs
		23. Quotation Marks and Colons

# Science

## Lesson Title

Water and Its Properties

Water Cycle

The Surface Water and Ground Water

The atmosphere

Energy Transfer

Waves

Properties of Waves

The Characteristics of cells

Cell structure and function

Levels of cellular organization

Photosynthesis and cellular respiration

Sound waves and hearing

Interactions of Sound

The Electromagnetic Spectrum

Interactions of Light

Lenses

Light Waves and Sight