

# Zahrat Al-Sahra'a International School

Grade 5 to 6 Entrance Exam

Required Lessons

Academic Year 2019-2020

## Math

### Chapter 1: Whole Numbers and Decimals

Lesson 1: Divide multi-digit numbers  
Lesson 2: Prime Factorization  
Lesson 3: Least common multiple  
Lesson 4: Greatest common factor  
Lesson 5: Apply the greatest common factor  
Lesson 6: Add and subtract decimals  
Lesson 7: Multiply Decimals  
Lesson 8: Divide decimals by whole numbers  
Lesson 9: Divide with decimals

### Chapter 2: Fractions

Lesson 1: Fractions and decimals  
Lesson 2: Compare and order fractions and decimals  
Lesson 3: Multiply fractions  
Lesson 4: Simplify factors  
Lesson 7: Divide fractions  
Lesson 8: Model mixed number division  
Lesson 9: Divide mixed numbers  
Lesson 10: Fraction operations

### Chapter 3: Rational Numbers

Lesson 1: Understand positive and negative numbers  
Lesson 2: Compare and order integers  
Lesson 3: Rational numbers and the number line  
Lesson 4: Compare and order rational numbers  
Lesson 7: Rational numbers and the coordinate plane  
Lesson 8: Ordered pair relationships

### Chapter 4: Ratios and Rates

Lesson 1: Model ratios  
Lesson 2: Ratios and rates  
Lesson 3: Equivalent ratios and multiplication tables  
Lesson 5: Use equivalent ratios  
Lesson 6: Find unit rates

### Chapter 5: Percents

Lesson 1: Model percents  
Lesson 2: Write percents as fractions and decimals  
Lesson 3: Write fractions and decimals as percents  
Lesson 4: Percent of a quantity  
Lesson 5: Percents  
Lesson 6: Find the whole from a percent

### Chapter 6: Units of Measure

Lesson 1: Convert units of length  
Lesson 2: Convert units of capacity  
Lesson 3: Convert units of weight and mass

### Chapter 7: Algebra: Expressions

Lesson 1: Exponents  
Lesson 2: Evaluate expressions involving exponents  
Lesson 3: Write algebraic expressions  
Lesson 4: Identify parts of expressions  
Lesson 5: Evaluate algebraic expressions and formulas  
Lesson 6: Use algebraic expressions

### Chapter 8: Algebra: Equations and Inequalities

Lesson 1: Solutions of equations  
Lesson 4: Solve addition and subtraction equations  
Lesson 6: Solve multiplication and division equations

### Chapter 10: Area

Lesson 1: Area of parallelograms  
Lesson 2: Explore area of triangles  
Lesson 3: Area of triangles  
Lesson 4: Explore area of trapezoids  
Lesson 5: Area of trapezoids

### Chapter 12: Data Displays and Measure of Center

Lesson 3: Dot plots and frequency tables  
Lesson 5: Mean as fair share and balance point  
Lesson 6: Measures of center

## Arabic

- قراءة النَّصِّ .
- الإجابة على الأسئلة حول النَّصِّ + مرادفات وأضداد من خلال النَّصِّ .
- الفعل المضارع المرفوع .
- الجار والمجرور .
- أسماء الإشارة .
- الاستثناء .
- الاسم المنقوص
- إعراب الجمل .
- التّواصل الكتابي .

# English

## Literary Genre

1. Realistic Fiction
2. Autobiography
3. Historical Fiction
4. Biography
5. Narrative Nonfiction
6. Informational Narrative
7. Tall Tale
8. Expository Nonfiction

## Reading Focus Skill

1. Plot: Conflict & Resolution
2. Character's Motives
3. Theme
4. Text Structure: Sequence
5. Compare and Contrast
6. Cause and Effect
7. Make Inferences
8. Main Ideas and Details
9. Author's Purpose and Perspective
10. Literary Devices
11. Summarize and Paraphrase
12. Fact and Opinion

## Grammar

1. Complete Declarative, and Interrogative Sentences
2. Imperative and Exclamatory Sentences; Interjections
3. Subjects and Predicates
4. Complete and Simple Subjects and Predicates
5. Compound Subjects and Predicates
6. Simple and Compound Sentences
7. Prepositions and Prepositional Phrases
8. Clauses and Phrases; Complex Sentences
9. Common and Proper Nouns
10. Singular and Plural Nouns
11. Possessive Nouns
12. Pronouns and Antecedents
13. Subjective-and Objective- Case Pronouns
14. Possessive –and Reflexive- Case Pronouns
15. Adjectives and Articles
16. Main and Helping Verbs
17. Action and Linking Verbs
18. Present Tense; Subject-Verb Agreement
19. Past and Future Tenses
20. Perfect Tenses
21. Irregular Verbs
22. Contractions
23. Adverbs
24. Punctuation Review

# Science

## Lesson Title

### **Cells To Body Systems**

What Are Cells

How Can We Observe Cells?

How Do Cells Work Together?

How Do Our Bodies Move, Breathe, and Circulate Blood

How Do Our Bodies Digest Food, Remove Wastes, and Send Messages?

### **How Living Things Grow And Reproduce?**

How Are Living Things Grouped?

### **Ecosystems**

What is an ecosystem?

### **Energy And Ecosystems**

What are rules of organisms in ecosystems?

### **Natural Resources**

How do people use natural resources?

What are balanced and unbalanced forces?

What are Newton's law?

### **Changes To Earth's Surface**

How do movements of the crust change Earth?

How do plates move?

### **Fossils**

What are fossils?

### **The Solar System And The Universe?**

What Objects Are part Of The Solar System?

### **Matter**

What are solids, liquids, and gases?

How do matter change?

What are mixtures and what are solutions?

What affects the speed of dissolving?