Zahrat Al-Sahra'a International School

Grade 7 to 8 Entrance Exam

Required Lessons

Academic Year 2019-2020

Math

Algebra

- 1.1 Variables and expressions The Distributive Property
- 1.2 -Solving equations by adding and subtracting
- 1.3 -Solving equations by Multiplying and dividing
- 1.4 -Solving Two-step and Multi-Step Equations
- 1.5 -Solving equations with variables on both sides
- 1.6 -Solving for a variable
- 1.7 -Solving absolute value equations
- 1.8 -Rates, Ratios and proportions
- 1.9 -Applications of proportions
- 2.1 -Graphing and writing Inequalities
- 2.2 -Solving inequalities by adding or subtracting
- 2.3 -Solving inequalities by multiplying or dividing.
- 2.4 -Solving Two-Step and Multi-Step Inequalities
- 2.5 -Solving Inequalities with variables on both sides
- 2.6 -Solving Compound Inequalities
- 2.7 -Solving Absolute-Value Inequalities
- 3.1 -Graphing Relationships
- 3.2 -Relations and Functions
- 3.3 -Writing Functions
- 3.4 Graphing Functions
- 3.6 Arithmetic Sequences

- 4.1 -Identifying linear functions
- 4.2 -Using Intercepts
- 4.3 -Rate of Change and slope
- 4.4 The Slope Formula
- 4.5 -Direct Variation
- 4.6 -Slope-Intercept Form
- 4.7- Point-Slope Form
- 4.9 -Slopes of parallel and perpendicular Lines

Geometry

- 1.1 -Understanding points, lines, and planes
- 1.2 -Measuring and constructing segments
- 1.3 -Measuring and constructing angles
- 1.4 -Pairs of angles
- 1.5 -Using Formulas in Geometry
- 1.6 -Midpoint and distance in the coordinate plane
- 3.1 Lines and angles
- 3.2 -Angles formed by parallel lines and Transversals
- 3.3 -Proving Lines parallel
- 3.4 -Perpendicular Lines
- 3.5 -Slopes of lines
- 3.6 -Lines in the Coordinate plane

Arabic

قراءة النّص .

الإجابة على الأسئلة حول النّص + مرادفات وأضداد من خلال النّص .

- ـ ألأفعال النّاقصة .
- الأحرف المشبّهة بالأفعال .

 - ـ المضاف إليه ـ المفرد والمثنّى والجمع .
 - ـ إعراب الجمل .
 - التّو اصل الكتابي .

English

Focus Skill

- 1. Comparing and Contrasting /
- 2. Short Story Traits
- 3. Plot: Conflict & Resolution
- 4. Making Predictions/Point of View of Narration
- Comparing Themes/ Recurring Themes Across Genres
- 6. Presenting an Argument
- 7. Finding the Main Idea/ Theme / Identifying Cause and Effect/ Biography and point of View of Narration
- 8. Compare and Contrast / Forms of Prose: Personal Essay
- 9. Figures of Speech
- 10. Figures of Speech:
- 11. Simile, Metaphor, personification

Grammar

- 1. The Sentence
- 2. Parts of Speech
- 3. The Verb
- 4. Complements
- 5. Phrases
- 6. Subject Verb Agreement
- 7. Pronoun Antecedent Agreement
- 8. Verbs
- 9. Mechanics: Commas, semicolons, colons, hyphens, quotation marks, italics, dashes, capitalization, plurals, numbers, and using the right word

Sciences Biology Lesson Title The Skeletal and Muscular Systems Sexual and Asexual Reproduction The Circulatory and Respiratory Systems Heredity The Digestive and Excretory systems Punnett Squares and Pedigrees **Nutrition and Fitness DNA Structure and Function Mitosis** Biotechnology Meiosis **Chemistry** Lesson Title Introduction to Matter The Atom The Periodic Table Properties of Matter Physical and Chemical Changes **Electrons and Chemical Bonding** Pure Substance and Mixture Ionic, Covalent, and Metallic Bonding States of Matter

Physics	
Lesson Title	
Speed and Motion	Fluids and Pressure
Acceleration	Electric Charge and Static Electricity
Forces	Electric Current
Gravity and Motion	Electric Circuits