

Al Noor International School
Riyadh, Kingdom of Saudi Arabia

Grade 12 Second Semester Syllabus

TABLE OF CONTENTS

S#	SUBJECTS	Page
1	English	1 – 2
2	Calculus	3
3	Biology	3
4	Chemistry	4
5	Physics	4
6	Social Studies	5
7	Computer	5

Grade 12 English Syllabus

LESSON	TEXT BOOK PAGE	WORKBOOK PAGE
LITERATURE		
Lesson 1: Comparing Texts	SA pp. 130-141	LC pp. 96-99
Lesson 2: Quake Engineer Returns from Nepal to Learn from Disaster	SA pp. 142-149	LC pp. 106-107
Lesson 3: The Epic of Gilgamesh: A New Translation	SA pp. 150-165	LC pp. 114-115
Lesson 4: Comparing Texts	SA pp. 166-174	LC pp. 122-125
Lesson 5: <i>from</i> Frankenstein Or, The Modern Prometheus	SA pp. 188-197	LC pp. 140-141
Lesson 6: "We Choose to Go to the Moon" / Astronauts and Astronettes	SA pp. 198-205 / SA pp. 206-219	LC pp. 148-151
Lesson 7: The Islamic Roots of Modern Pharmacy	SA pp. 220-229	LC pp. 158-159
Lesson 8: Mysterious New Human Species Emerges from Heap of Fossils	SA pp. 230-237	LC pp. 166-167
Lesson 9: When Continental Drift Was Considered PseudoLCience / Continental Drift: Theory and Definition / History Class	SA pp. 238-244 / SA pp. 245-247 SA p. 248-250	LC pp. 174-177
Lesson 10: A Swimming Lesson	SA pp. 254-259	LC pp. 188-189
GRAMMAR		
LESSON	TEXT BOOK PAGE	WORKBOOK PAGE
Lesson 1: Archaic Language	LC pp. 102-103	WB pp. 46-47
Lesson 2: Shifts in Verb Tense Verbs Verb Tenses	LC pp. 110-111	WB pp. 48-49
Lesson 3: Analyze Sentence Structure	LC pp. 118-119	WB pp.30-34
Lesson 4: Parallelism and Anaphora	LC pp. 128-129	WB pp. 11-13
Lesson 5: Verb Moods: Indicative, Imperative, and Interrogative	LC pp. 144-145	WB pp. 55-56
Lesson 6: Allusion and Antithesis	LC pp. 154-155	WB pp. 20-22
Lesson 7: Subject-Verb Agreement Parts of Speech Pronoun-Antecedent Agreement	LC pp. 162-163	WB pp. 69-74
Lesson 8: Subject-Verb Agreement Hard to find subject	LC pp. 170-171	WB pp. 14-17
Lesson 9: Conditional Sentences and Subjunctive Mood	LC pp. 180-181	WB pp. 26-29
Lesson 10: Degrees of Adjectives Adjectives	LC pp. 192-193	WB pp.75-80
Vocabulary		
LESSON	TEXT BOOK PAGE	
Lesson 1: Selection Vocabulary Multiple Meaning Words	LC p. 100 LC p. 101	
Lesson 2: Selection Vocabulary Analyze Suffixes	LC p. 108 LC p. 109	

Lesson 3: Selection Vocabulary Figures of Speech	LC p. 116 LC p. 117	
Lesson 4: Selection Vocabulary Understand Affixes	LC p. 126 LC p. 127	
Lesson 5: Selection Vocabulary/ Archaic Language	LC pp. 142-143	
Lesson 6: Selection Vocabulary/ LCientific Vocabulary	LC pp. 152-153	
Lesson 7: Selection Vocabulary/ Etymology of Medical Terms	LC pp. 160-161	
Lesson 8: Selection Vocabulary/ Adding Suffixes	LC pp. 168-169	
Lesson 9: Selection Vocabulary/ Domain-Specific Vocabulary	LC pp. 178-179	
Lesson 10: Selection Vocabulary/ Context Clues: Synonyms & Antonyms	LC pp. 190-191	

Writing

LESSON	TEXT BOOK PAGE	
Lesson 1: Comparison-and-Contrast Essay	LC pp. 104-105	
Lesson 2: Comparison-and-Contrast Essay	LC pp. 112-113	
Lesson 3: Write Blog Posts	LC pp. 120-121	
Lesson 4: Write a Literary Analysis	LC pp. 130-131	
Lesson 5: Write a Character Analysis	LC pp. 146-147	
Lesson 6: Write an Evaluative Essay	LC pp. 156-157	
Lesson 7: Write a Response to an Argument	LC pp. 164-165	
Lesson 8: Write an Argument	LC pp. 172-173	
Lesson 9: Write a Research Brief	LC pp. 182-183	
Lesson 10: Write a Letter	LC pp. 194-195	

Subject: Calculus		Grade 12
Second Semester Syllabus		
Chapter 3: Derivatives		
3.2 The Derivative as a Function		124 - 133
3.3 Differentiation Rules		133 – 142
3.4 The Derivative as a Rate of Change		142 – 152
3.5 Derivatives of Trigonometric Functions		152 – 158
3.6 The Chain Rule		158 – 166
3.7 Implicit Differentiation		166 – 171
3.8 Related Rates		171 – 180
Chapter 5 Integrals		
5.2 Sigma Notation and Limits of Finite Sums		276 – 283

Subject: Biology		Grade 12
Second Semester		
Chapter 18 Classification	TB Pages	WB Pages
Lesson 1 Finding Order in Diversity	510 – 515	286 – 288
Lesson 2 Modern Evolutionary Classification	516 – 522	289 – 292
Lesson 3 Building the Tree of Life	523- 528, 531-535	293 – 295, 296
Chapter 19 History of Life		
Lesson 1 The Fossil Record	538 - 545	300 – 303
Lesson 2 Patterns and Processes of Evolution	546 – 552	304 – 306
Chapter 20 Viruses and Prokaryotes		
Lesson 1 Viruses	574 - 579	314 -315
Lesson 2 Prokaryotes	580 – 585	316 -318
Lesson 3 Disease Caused by Bacteria and Viruses	586 – 592	319 -321

Subject: Chemistry		Grade 12
Second Semester Syllabus		
Chapter 22: Hydrocarbon Compounds	TB pages	WB pages
Lesson 1: Hydrocarbons	762-771	328-330
Lesson 2: Unsaturated Hydrocarbons	772-773	331-332
Lesson 3 Isomers	775-778	333-335
Lesson 4: Hydrocarbon Rings Chapter Assessment	779-781, 790	335-337
Chapter 23: Functional Group		
Lesson 1: Introduction to Functional Group	798-802 & 830	345-348
Lesson 2: Alcohols, Ethers, and Amines	804-811	348-351
Lesson 3: Carbonyl Compounds	812-820	351-354
Lesson 4: Polymers	822-827	354-359

Subject: Physics		Grade-12
Second Semester		
Chapter/Lesson	TB pages	
Chapter 23: Electromagnetic Induction	828-849	
L#2. Electric Generators and Motors	828-831	
L#3. AC Circuits and Transformers	832-849	
Chapter 24: Quantum Physics	850-881	
L#1. Quantized Energy and Photons	850-863	
L#2. Wave-Particle Duality	864-867	
L#3. The Heisenberg Uncertainty Principle	868-881	
Chapter 25: Atomic Physics	882-909	
L#1. Early Models of the Atom	882-887	
L#2. Bohr's Model of the Hydrogen Atom	888-896	
L#3. The Quantum Physics of Atoms	897-909	

Grade 12 Social Studies Syllabus	
LESSON	TEXT BOOK PAGE
Lesson 6: Pearl Harbor and the Japanese Expansion	TB: PP: 37 – 40
Lesson 7: War Fronts in North Africa	TB: PP: 41 – 46
Lesson 8: Stalingrad and the German Retreat, Summer 1942 – February 1943	TB: PP: 47 – 52
Lesson 9: The Allied Landings in Europe and the Defeat of Axis Powers	TB: PP: 53 – 63
Lesson 10: Yalta Conference and the German Collapse	TB: PP: 64 – 74
Lesson 11: Hiroshima and Nagasaki and The Surrender of Japan	TB: PP: 75 – 79
Lesson 12: Costs of the War	TB: PP: 80 – 84

Subject: Computer		Grade:12	
Second Semester			
PHP		TB	WB
Reviewing PHP skills learned in Grade 11 Writing and running a simple PHP script		20-21	
Introducing Data type in PHP Learning what variables are and how to use them in PHP		22-23	
Writing a condition in PHP		24-25	
Creating and Processing HTML Forms with PHP		26-27	
Review Lessons: PHP Knowledge Check		28	
Arduino		TB	WB
Reviewing Grades 10 and 11 Learning about Arduino and IoT		50-51	
Learning the use of digital pins		52-53	