

2020-21

**BAYAAN ACADEMY MIDDLE SCHOOL**

## Core Courses Outline



**MATH 6**

Math 6 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices.

This course is built for the Grade 6 Common Core State Standards for Mathematics.

UNIT 1: RATIOS AND RATES

UNIT 2: NUMBER SENSE

UNIT 3: SIGNED NUMBERS

UNIT 4: THE COORDINATE PLANE

UNIT 5: NUMERICAL AND ALGEBRAIC EXPRESSIONS

UNIT 6: EQUATIONS AND INEQUALITIES, PART 1

UNIT 7: EQUATIONS AND INEQUALITIES, PART 2

UNIT 8: GEOMETRY

UNIT 9: INTRODUCTION TO STATISTICS

UNIT 10: SUMMARIZING DATA

END OF THE YEAR REVIEW

**ENGLISH 6**

English 6 delivers instruction, practice, and review designed to build students' communication and reading comprehension skills. Reading comprehension lessons strengthen students' critical analysis skills as they study how nonfiction and literature can be used to share ideas. Writing lessons combine free-response exercises with drafting strategies and exemplars to help students communicate clearly and credibly in the narrative, argumentative, and explanatory styles.

UNIT 1: ELEMENTS OF LITERATURE

UNIT 2: ANALYZING LITERATURE

UNIT 3: READING STRATEGIES, PART 1

UNIT 4: READING STRATEGIES, PART 2

UNIT 5: SENTENCE STRUCTURE

UNIT 6: USAGE

UNIT 7: WRITING

UNIT 8: TYPES OF WRITING

## MS EARTH & SPACE SCIENCE

Middle School Earth and Space Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts including Earth's systems, engineering design, the nature of the universe, and the interaction between humans and the environment.

This course is built to state standards and the Next Generation Science Standards for Earth and space science.

UNIT 1: NATURE OF SCIENCE

UNIT 2: MEASUREMENT AND DATA

UNIT 3: PLANET EARTH

UNIT 4: THE GEOSPHERE

UNIT 5: OUR CHANGING PLANET

UNIT 6: EARTH'S PLATES

UNIT 7: THE ATMOSPHERE, HYDROSPHERE, AND CRYOSPHERE

UNIT 8: WEATHER AND CLIMATE

UNIT 9: HUMANS AND EARTH'S RESOURCES

UNIT 10: THE SOLAR SYSTEM

UNIT 11: EXPLORING THE UNIVERSE

END OF THE YEAR REVIEW

## **MS WORLD HISTORY**

Middle School World History delivers instruction, practice, and review designed to build middle school students' knowledge of world history, from the Neolithic Revolution through the Middle Ages. By constantly honing their ability to analyze history, students build the depth of knowledge and higher-order thinking skills required to demonstrate their mastery when put to the test.

UNIT 1: SOCIAL STUDIES SKILLS AND BIG IDEAS

UNIT 2: THE BEGINNING OF CIVILIZATION

UNIT 3: ANCIENT CIVILIZATIONS

UNIT 4: CLASSICAL CIVILIZATIONS

UNIT 5: ASIAN PRACTICES

UNIT 6: SOCIAL STUDIES SKILLS AND BIG IDEAS

UNIT 7: ISLAM

UNIT 8: THE MIDDLE EAST AND EUROPE IN THE MIDDLE AGES

UNIT 9: CIVILIZATIONS IN AFRICA AND THE AMERICAS

UNIT 10: POST CLASSICAL CIVILIZATIONS IN ASIA

**MATH 7**

Math 7 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. Throughout the course, students gain a deep understanding of proportions and their use in solving problems.

UNIT 1: RATE, RATIO, AND PROPORTION

UNIT 2: ADDITION AND SUBTRACTION OF RATIONAL NUMBERS

UNIT 3: MULTIPLICATION AND DIVISION OF RATIONAL NUMBERS

UNIT 4: FOUNDATIONS OF ALGEBRA

UNIT 5: SEMESTER WRAP UP

UNIT 6: GEOMETRIC FIGURES

UNIT 7: GEOMETRY IN TWO AND THREE DIMENSIONS

UNIT 8: STATISTICS AND SAMPLING

UNIT 9: PROBABILITY

END OF THE YEAR REVIEW

**ENGLISH 7**

English 7 delivers instruction, practice, and review designed to build students' communication and reading comprehension skills. Reading comprehension lessons strengthen students' critical analysis skills as they study how nonfiction and literature can be used to share ideas.

UNIT 1: ELEMENTS OF LITERATURE

UNIT 2: LANGUAGE USAGE

UNIT 3: READING STRATEGIES

UNIT 4: ANALYZING NON-LITERARY TEXTS

UNIT 5: SENTENCE STRUCTURE

UNIT 6: USAGE

UNIT 7: WRITING

UNIT 8: EXPOSITORY AND NARRATIVE WRITING

UNIT 9: ARGUMENTATIVE WRITING

**MS LIFE SCIENCE**

Middle School Life Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts including the relationship between structure and function, the flow of energy and matter through living systems, heredity, and the diversity of life.

This course is built to state standards and the Next Generation Science Standards for life science.

UNIT 1: NATURE OF SCIENCE

UNIT 2: MEASUREMENT AND DATA

UNIT 3: NATURE OF LIFE

UNIT 4: CELLS

UNIT 5: GENETICS

UNIT 6: DIVERSITY OF LIFE

UNIT 7: MULTICELLULAR BODIES

UNIT 8: THE HUMAN BODY

UNIT 9: HUMAN DEVELOPMENT

UNIT 10: RESPONSE TO STIMULI

UNIT 11: ECOLOGY

UNIT 12: UNDERSTANDING EVOLUTION



**MS U.S. HISTORY**

Middle School U.S. History delivers instruction, practice, and review designed to build middle school students' knowledge of U.S. history, from the peopling of North America through the era of Reconstruction. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content.

UNIT 1: INTRODUCTION TO U.S HISTORY

UNIT 2: FROM COLONIES TO INDEPENDENCE

UNIT 3: BUILDING THE FEDERAL GOVERNMENT

UNIT 4: EARLY U.S. GOVERNMENTS

UNIT 5: EARLY U.S. CULTURE AND EXPANSION

UNIT 6: INDUSTRIALIZATION AND REFORM

UNIT 7: REGIONAL CONFLICTS

UNIT 8: THE CIVIL WAR AND RECONSTRUCTION

## **MATH 8**

Math 8 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. Much of the concept are pre-algebra and geometry related.

UNIT 1: THE NUMBER SYSTEM

UNIT 2: FUNCTIONS

UNIT 3: LINEAR FUNCTIONS

UNIT 4: SOLVING EQUATIONS

UNIT 5: SEMESTER WRAP UP

UNIT 6: GEOMETRY AND MEASUREMENT

UNIT 7: TRANSFORMATIONS, CONGRUENCE, AND SIMILARITY PART 1

UNIT 8: TRANSFORMATIONS, CONGRUENCE, AND SIMILARITY, PART 2

UNIT 9: DATA AND STATISTICS

UNIT 10: SEMESTER WRAP UP

**ENGLISH 8**

English 8 delivers instruction, practice, and review designed to build students' communication and reading comprehension skills. Reading comprehension lessons strengthen students' critical analysis skills as they study how nonfiction and literature can be used to share ideas.

UNIT 1: ELEMENTS OF LITERATURE

UNIT 2: LITERARY ELEMENTS

UNIT 3: READING STRATEGIES

UNIT 4: ANALYZING NON-LITERARY TEXTS

UNIT 5: SENTENCE STRUCTURE

UNIT 6: WORD USAGE

UNIT 7: WRITING

UNIT 8: TYPES OF WRITING

**MS PHYSICAL SCIENCE**

Middle School Physical Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts including the interactions of matter; motion and stability; waves and their technological applications; and energy.

UNIT 1: NATURE OF SCIENCE

UNIT 2: MEASUREMENT AND DATA

UNIT 3: NATURE OF MATTER

UNIT 4: DESCRIBING MATTER

UNIT 5: CHANGES IN MATTER

UNIT 6: FORCE AND MOTION

UNIT 7: NONCONTACT FORCES

UNIT 8: ENERGY

UNIT 9: THERMAL ENERGY AND HEAT

UNIT 10: WAVES

UNIT 11: APPLICATIONS OF WAVES

## **MS CIVICS**

Middle School Civics delivers instruction, practice, and review designed to build middle school students' understanding of the political and governmental systems of the United States and the roles played by citizens.

UNIT 1: CREATING THE U.S. GOVERNMENT

UNIT 2: THE U.S. CONSTITUTION

UNIT 3: INSTITUTIONS OF GOVERNMENT

UNIT 4: LEGISLATIVE AND JUDICIAL

UNIT 5: CITIZEN CONNECTIONS

UNIT 6: CIVIL LIBERTIES AND CIVIL RIGHTS

UNIT 7: PUBLIC POLICY

UNIT 8: SKILLS FOR SOCIAL STUDIES